Sme # 1802

# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

## PHASE I INVESTIGATION

AKA borer LF & 2

DOVER LF#2

Route 22, Westside Town of Dover

Site No. 314029 Dutchess County NYA 980 508139

DATE: October 1989

FILE COPY

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BUREAU OF HAZARDOUS SITE CONTROL DIVISION OF HAZARDOUS WASTE REMEDIATION



Prepared for:

New York State
Department of
Environmental Conservation

50 Wolf Road, Albany, New York 12233 Thomas C. Jorling, *Commissioner* 

> Division of Hazardous Waste Remediation Michael J. O'Toole, Jr., P.E., *Director*

By: Lawler, Matusky & Skelly Engineers



ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

ROUTE 22 WESTSIDE Town of Dover Dutchess County Site No. 314029

## Prepared For:

DIVISION OF HAZARDOUS WASTE REMEDIATION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road
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October 1989

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#### CHAPTER 1

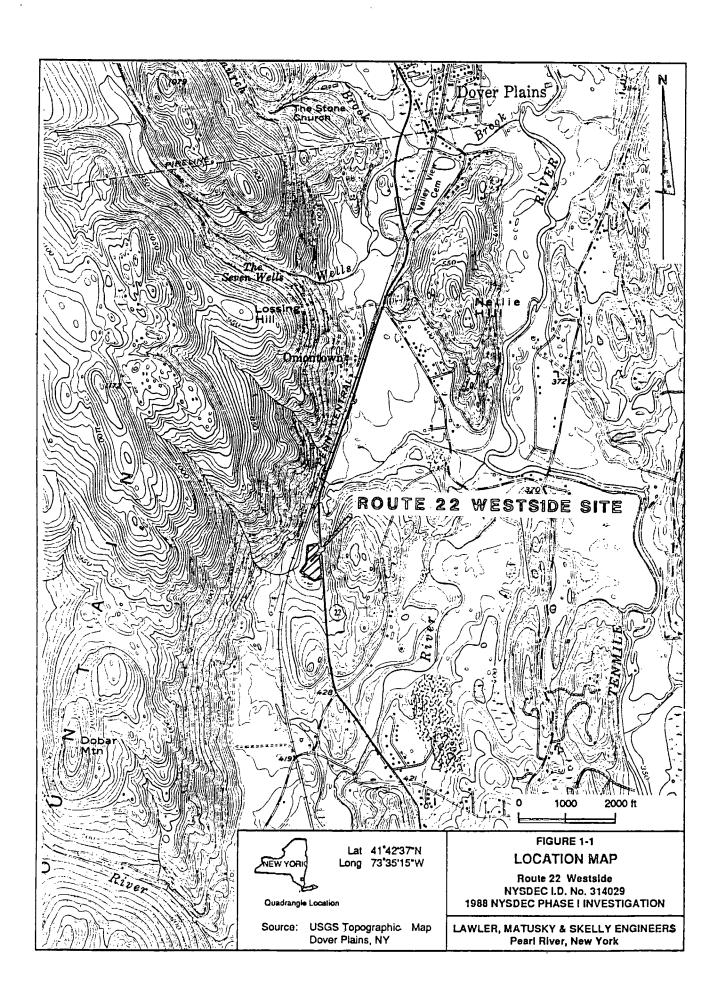
#### **EXECUTIVE SUMMARY**

The Route 22 Westside site is located in the Town of Dover, Dutchess County, New York. The site lies approximately 1.75 miles south of Dover Plains, immediately west of Route 22. A stream and wetland form the site's southern boundary. A marsh and intermittent stream form the northern boundary. The area is wooded and sparsely populated. Private residences are located approximately 1800 ft southeast of the site (Figure 1-1). Figure 1-2 illustrates the area of concern on the property.

The Town of Dover used the site for an unknown number of years to dispose of its municipal waste. Poor waste disposal practices were observed during its operational life. Leachate has been observed emanating from the landfill. One leachate sample was collected in 1979 by the Dutchess County Health Department (DCHD). Iron and phenol were the only compounds detected. A 1983 NUS Corporation (NUS) site inspection observed the covered landfill supporting trees and vegetation. Ponded water on the south side of the landfill was observed.

Lawler, Matusky & Skelly Engineers (LMS) inspected the site on 15 December 1988 as part of a Phase I investigation (Photos 1-1 to 1-3). Site conditions were similar to those at the time of the 1983 NUS site inspection. Empty drums found on-site probably were discarded after the site was closed.

The Phase I investigation also included a review of information gathered from the U.S. Environmental Protection Agency (EPA), the



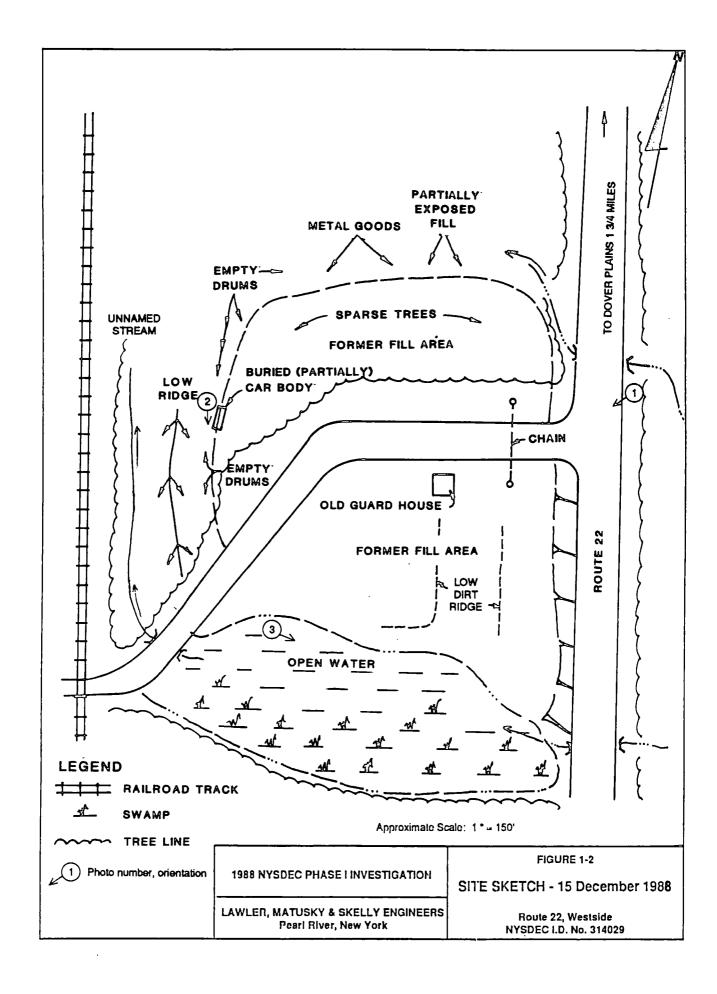




Photo 1-1. - Route 22 Westside. Looking southwest across Route 22 at the site's southern fill area.



Photo 1-2. - Route 22 Westside. Looking south at the empty drums on the land adjacent to the northern portion of the landfill. Note the low ridge on the right.



Photo 1-3. - Route 22 Westside. Looking east at edge of fill in wetland. Route 22 is in upper portion of the picture.

New York State Department of Environmental Conservation (NYSDEC), the New York State Department of Health (NYSDOH), and DCHD.

During the Phase I effort, information on the site was compiled from state, Federal, county, and municipal offices as well as private concerns. General information on the area was obtained from the LMS library, an inspection of the site, and interviews with personnel associated or acquainted with the site's history and/or operations. All of the material collected was reviewed to prepare this report, which provides a history, preliminary assessment, and preliminary score of the site based on EPA's Hazard Ranking System (HRS).

EPA uses the HRS to apply uniform technical judgment in evaluating the relative hazards presented by the sites being considered for Federal Superfund remediation. The HRS addresses only relative hazard. It does not assess the feasibility, desirability, or degree of cleanup required, and does not address all potential environmental or health impacts.

Under the HRS three numerical scores are computed for each site to express the relative risk or danger from the site, taking into account the population at risk; the hazardous potential of substances found at the site; the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecological systems; and other appropriate factors. The three scores are:

o  $S_M$ , reflecting the potential for harm to humans or the environment from migration of a hazardous substance from the facility by groundwater ( $S_{GW}$ ), surface water ( $S_{SW}$ ), or air ( $S_A$ ). It is a composite of separate scores for each of the three routes.

- O SFE, reflecting the potential for harm from substances that can explode or cause fires.
- O Spc, reflecting the potential for harm from direct contact with hazardous substances at the facility.

Fire and explosion ( $S_{FE}$ ) and direct contact ( $S_{DC}$ ) are also scored numerically, but are not considered in the final HRS score.

Based on information gathered from this investigation, the Route 22, Westside site was scored as follows:

 $S_M = \text{not scored}$  ( $S_{GW} = \text{not scored}$ ;  $S_{SW} = 4.00$ ;  $S_{\Delta} = 0$ )

 $S_{FE}$  = not scored  $S_{DC}$  = 25.00

Because of the lack of data or documentation to support any conclusions about the site, a stepped sampling program is recommended.

Preliminary studies should include residential well water, surface water, leachate, and sediment sampling analyses together with a soil gas survey with groundwater and leachate sampling. Based on the data from the preliminary studies, the site can either be delisted to Bureau of Municipal Waste (6 NYCRR Part 360 [Solid Waste Management Facility]) supervision or a Phase II investigation can be conducted. This investigation should consist of geophysical studies, monitoring well installation and sampling, additional soil and surface water sampling, site survey, and a report outlining results and recommendations.

#### CHAPTER 2

#### <u>PURPOSE</u>

The Route 22 Westside site is listed in NYSDEC's Inactive Hazardous Waste Disposal Site Registry as a Class 2a site, a temporary classification for which there are inadequate data and information to properly assign the site to one of five other active classes (including delisting).

A Phase I site investigation is intended to provide (1) a preliminary assessment of hazardous substances present at the site, pollutant migration pathways, and the population or resources that might be affected by pollutants from the site; (2) observations of past disposal practices; and (3) information on those responsible for the wastes at the site.

The objectives of this Phase I investigation were to:

- Review appropriate agency files to determine site history and collect and summarize pertinent analytical data.
- Inspect the site for existing conditions and any visible signs of environmental damage.
- o Complete a preliminary HRS score.
- o Prepare a summary report.

This information is used to determine whether there is a threat to the environment. Where appropriate, further actions or investigations are recommended.

#### CHAPTER 3

#### SCOPE OF WORK

Files from appropriate agencies were reviewed to collect information about the site. Table 3-1 records agency and landowner contacts.

LMS conducted a site inspection on 15 December 1988 to document existing environmental conditions, prepare a site sketch, and investigate the existence and possible migration pathways of contaminants at the site. The weather during the site inspection was sunny, with a light breeze. Temperature was 40°F. Snow and ice were observed but did not hinder the inspection. Air monitoring was performed during the site inspection with an HNU photoionization detector and an explosimeter (Exotox 40). Table 3-2 summarizes the monitoring results.

The access road from Route 22 traverses and bisects the former landfill (Figure 1-2) into a northern and southern half. The site was covered and well vegetated. Trees were observed growing in the landfill, especially the northern half. No odors or instrument deviations were noted. The northern and western landfill slopes were littered with bulky metal goods, empty drums, and tires. The drums on top of the cover material were probably discarded at the site sometime after landfill closure. No leachate was observed in either the marsh to the south or the stream to the north.

## TABLE 3-1

## SITE CONTACTS

# Route 22 Westside NYSDEC I.D. No. 314029

CONTACT	RESULT
EPA, Region II 26 Federal Plaza New York, NY 10278	
Permits Administration Branch Michael Soranno 212-264-9880 Site Investigation Section	No file
Jeffrey Gaal 212-264-6668 Edison, NJ 08837 Surveillance and Monitoring Branch	File reviewed
Sandy Hansen 201-906-6808  NYSDEC 50 Wolf Road	File reviewed
Albany, NY 12233 DHWR/BHSC	
Michael Komoroske 518-457-0639 DSHW/BMW Michael Hill 518-457-2051	File reviewed
21 South Putt Corners Road	File reviewed
New Paltz, NY 12581 Ram Pergardia 914-255-5453	File reviewed
New York State Department of Health 2 University Place Albany, NY 12237 William Lowden 518-458-6305	File reviewed
Dutchess County Health Department 22 Market Street Poughkeepsie, NY David Ruff 914-431-2044	File reviewed
NUS Corporation 1090 King George Post Road Edison, NJ 08837 Charles LoBue 201-225-6160	File reviewed
Martin S. Spellman, Sr., Esq.	Lawyer for owner
34 South Broadway White Plains, NY 10601 914-997-0200	24.13. 131 OHIICI
Whitney Aggregates, Inc. c/o Mr. James Hosie Rd 2 Box 369F Rhinebeck, NY 12572 914-229-7725	Owner, permission for site access, and site history

TABLE 3-2 LMS SITE INSPECTION AIR QUALITY DATA Route 22 Westside NYSDEC I.D. No. 314029

TIME	LOCATION	METER	MEASUREMENT
1541	Background	HNU Exotox	0.2 ppm $0_2 - 20.7\%$ TWA - 0 ppm $H_2S - 1-2$ ppm LEL - 0%
1550	South side of landfill	HNU Exotox	0.2 ppm $0_2 - 20.7\%$ TWA - 0 ppm $H_2S - 1-2$ ppm LEL - 0%
1600	Empty drums (northwest side)	HNU Exotox	0.2 ppm $0_2 - 20.7\%$ TWA - 0 ppm $H_2S - 1-2$ ppm LEL - 0%
1615	North side of landfill	HNU Exotox	0.2 ppm $0_2 - 20.7\%$ TWA - 0 ppm $H_2S - 1-2$ pm LEL - 0%
1625	Northeast side of landfill	HNU Exotox	0.2 ppm 02 - 20.7% TWA - 0 ppm H <sub>2</sub> S - 1-2 ppm LEL - 0%

O<sub>2</sub> - Oxygen. TWA - Time-weighted average. H<sub>2</sub>S - Hydrogen sulfide (Tox on meter). LEL - Lower explosive limit (Exp on meter).

#### CHAPTER 4

#### SITE ASSESSMENT

#### 4.1 SITE HISTORY

The Route 22 Westside site is currently owned by Whitney Aggregates, Inc. Mr. Stanley Lewis of Katonah, New York, previously owned the site. Mr. Fred Lee (deceased) owned the property during the time the site was used as a landfill. The Town of Dover operated the site as a landfill for town residents only.

Landfilling began in 1967 (Ref. 1, Appendix A) in a marshy area west of Route 22, south of Dover Plains (Ref. 2, Appendix A). The landfill received only municipal waste from one (Ref. 1, Appendix A) to six or eight years (Ref. 3, Appendix A). The six to eight years of landfilling seem to be a better estimate of operating time based on the estimated size of the landfill. No hazardous wastes are suspected to have been landfilled. Dutchess County Health Department (DCHD) site inspection reports (Ref. 4, Appendix A) note only 1967 and 1968 inspection dates. The reports note that the landfill had been poorly maintained and leachate emanated from the site. Tar paper and shingles disposal were also documented (Ref. 4, Appendix A). A leachate sample was collected in 1979 (see Section 4.4 of this report). NUS Corporation inspected the site for EPA on 5 October 1983 (Ref. 3, Appendix A). The inspection noted topsoil covering the site as well as trees growing in the fill. A steep slope from the road to the landfill has been filled with additional cover material to the level of the road.

#### 4.2 SITE AREA

#### 4.2.1 Topography and Drainage

The topography in the Dover region exhibits features that are common throughout Harlem Valley. This area of Dutchess County is characterized by numerous irregularly shaped hills and lowlands. Upland regions are commonly dissected by streams, while wetlands are frequent in low-lying areas. Dominating surface flow in this region are the Swamp River and Tenmile River.

The Route 22 Westside site is located within the Tenmile Creek Valley approximately 2 miles south of Dover Plains. The site, which occupied an estimated 1 acre, is situated along Route 22 in a flat, well-vegetated, low-lying marshy area. The terrain surrounding this area is marked by increasing relief, becoming steep and hilly. Several wetland regions exist to the north and south. An unnamed stream flows from West Mountain northward along the site's western perimeter and drains into the Tenmile Creek.

This area of Dutchess County is part of the Housatonic River drainage basin. The immediate area has drainage provided chiefly by the Tenmile River and minor flows that drain into it. The landfill is located approximately 3000 ft from the Tenmile River. Drainage is provided by the previously mentioned unnamed stream flowing into the Tenmile. Any contaminants removed from the landfill via runoff and leaching may be transported in the stream to the Tenmile River.

## 4.2.2 <u>Environmental Setting</u>

The site is located approximatedly 1.75 miles south of the Village of Dover Plains, New York, along the west side of Route 22. The wooded, rural area is sparsely populated. The nearest residence is

approximately 1800 ft southeast of the site. West Mountain trends north-south approximately 1000 ft west of the site. Penn-Central railroad tracks lie 300 ft to the west. The land is used by a fish and game club and for hunting.

A New York State-regulated wetland lies 2300 ft south-southwest of the site (Ref. 5, Appendix A). An unnamed brook originates on West Mountain, flows eastward to the site, turns north, and flows into the Tenmile River 1 mile to the northeast. The unnamed brook is a New York State Class C waterway (Ref. 6, Appendix A). It is designated for fishing, fish propagation, and primary and secondary contact recreation.

#### 4.3 SITE HYDROGEOLOGY

#### 4.3.1 <u>Soils</u>

The predominant soil present on the Route 22 Westside site is Kendaia silt loam with a 0-3% slope (Ref. 7, Appendix A). This soil typically occurs in upland areas on very gentle slopes, or nearby level areas, and at the heads of streams. The till on which the soils develop is composed primarily of limestone, intermixed with some slate, sandstones, schist, and gneiss. This soil occurs at varying depths. Internal drainage and surface runoff are slow as erodibility rates are low.

#### 4.3.2 Geology

Overlying the Stockbridge Limestone (Ref. 8, Appendix A) are unconsolidated deposits derived from glaciers and glacial meltwater. These deposits consist of both stratified glacial till (derived from glaciers and composed of a mixture of clay, sand, and gravel) and (chiefly) stratified glacial outwash (derived from glacial meltwater and composed of sand and gravel). The stratified de-

posits generally range in thickness from a few feet to as much as 200 ft.

Beneath the unconsolidated deposits, the first bedrock lithology encountered is the Stockbridge Limestone. This unit is described as a sequence of white to gray limestone and dolomite, some metamorphosed to marble. The thickness of the Stockbridge Limestone is approximately 1000 ft, with local variations due to folding and faulting. The depth to bedrock is approximately 100 ft below the ground surface in this region. The Stockbridge Limestone is bounded by thrust faults to the east and west. These faults trend north-northeast, roughly parallel to the contours of the Tenmile River as it flows through the Dover Plains area. To the east, the Cheshire Quartzite (Poughquag Quartzite) is thrust westward over the Stockbridge Limestone.

Below the Stockbridge Limestone is another bedrock formation called the Cheshire Quartzite. This unit is described as strong, compact silicious rock composed almost entirely of quartz. It generally appears white but may occur as pink or buff due to impurities. The thickness of the Cheshire Quartzite varies from a few feet to about 600 feet.

#### 4.3.3 Groundwater

Groundwater in the Dover Plains area occurs in both unconsolidated surficial deposits and bedrock (Ref. 8, Appendix A). Recharge for groundwater is provided primarily by snowfall and rain. The average annual precipitation is approximately 45 in. Much of it returns to the atmosphere by evaporation or is transpired by vegetation. Some of it runs off to streams. The remainder percolates into the ground. The average annual evaporation is approximately 30 in., which yields a net annual precipitation of approximately 15

in. The groundwater level fluctuates and ranges from 5 to 10 ft below surface elevation in the unconsolidated surficial deposits.

These deposits, consisting mainly of stratified sand and gravel, yield an average of 10-15 gpm. Large supplies adequate for municipal and industrial needs can be obtained from these stratified deposits (Ref. 8, Appendix A).

The Stockbridge Limestone is the most productive bedrock unit, with yields averaging 22 gpm and ranging widely from 0 to 220 gpm. The water is moderately hard and high in dissolved solids. This bedrock unit overlies the Cheshire Quartzite, which yields about 10 gpm. The use of Cheshire Quartzite as a source of groundwater is insignificant due to its lower yield and difficulty to drill through.

Prior to 1957 water for Dover Plains was obtained entirely from Seven Wells Brook. Since 1957 the water supply has been supplemented by a municipal water system from the Stockbridge Limestone. The Dover Water Company well is located within 2 miles north of the site and serves less than 1500 people from the Village of Dover Plains. A nonmunicipal community well serving the Powell Road Mobile Park is located 12,000 ft north-northeast of the site and serves about 115 people. The homes outside this area are served by private wells (Ref. 8, Appendix A).

#### 4.4 PREVIOUS SAMPLING AND ANALYSES

There are no known groundwater analyses. Limited air analyses (Chapter 3 and Ref. 3, Appendix A) show no readings above background.

No hazardous waste is suspected to have been landfilled at the site. One leachate sample (exact location unknown) was collected

on 17 December 1979 (Ref. 9, Appendix A). Table 4-1 lists the analyses. Iron is a typical constituent of sanitary landfill leachate. Phenol could be generated from household waste, nearby discarded railroad ties, or shingles and tar paper. All three ideas are hypotheses to explain a single analytical value.

TABLE 4-1 LEACHATE ANALYSIS

Route 22 Westside NYSDEC I.D. No. 314029

PARAMETER	CONCENTRATION
<u>Physical</u>	
Chloride pH TOC Specific conductance <sup>b</sup> Oil/grease	12.5 6.7 66 315 <0.1
Pheno1	3.8
PCBs (Aroclors)	С
1248 1254 1260	
<u>Metals</u>	
Cadmium Chromium (total) Chromium (+6) Iron Lead Mercury	<0.01 <0.03 <0.03 30.6 0.01 0.001

Collected by the Dutchess County Health Department.

 $<sup>^{\</sup>rm a}$ All data in milligrams per liter (mg/l or ppm) unless otherwise noted.

bUnits are micromhos per centimeter (umhos/cm).

CMultiple interference, unable to quantify.

#### CHAPTER 5

## PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

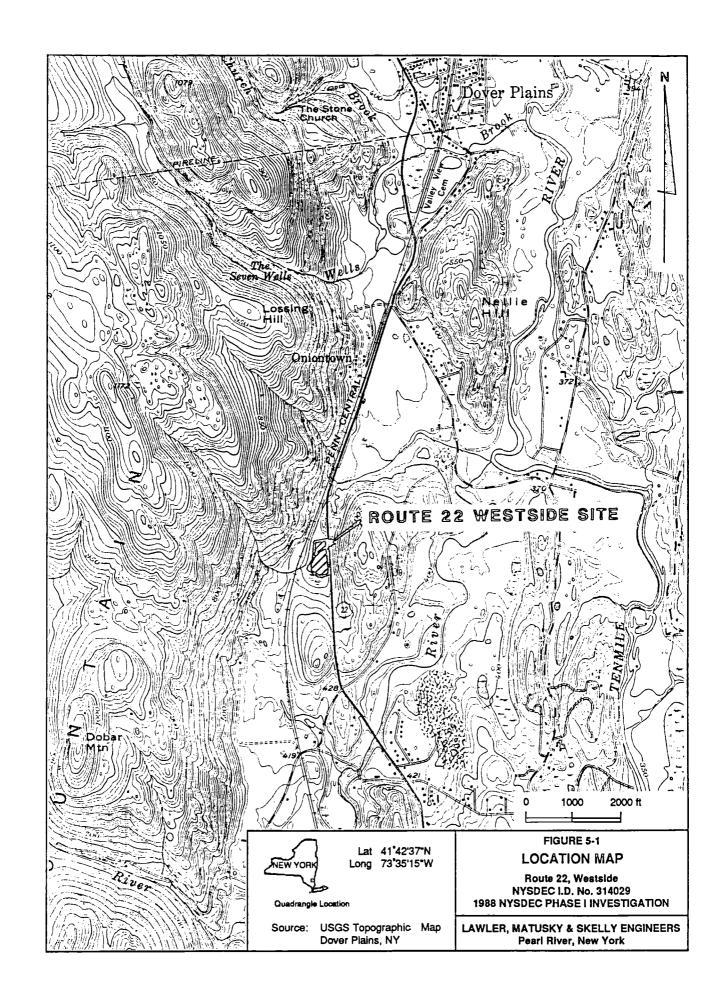
#### 5.1 NARRATIVE SUMMARY

The Route 22 Westside site occupies approximately 1 acre in the Town of Dover, Dutchess County, New York. Municipal waste land-filling occurred for an unknown number of years. Whitney Aggregates purchased the inactive covered landfill circa 1979. An unknown quantity of municipal waste was disposed of by local residents. One leachate sample collected by the Dutchess County Health Department shows iron and phenol.

The site is located approximately 1.75 miles south of Dover Plains, on the west side of Route 22. The surrounding area is wooded and sparsely populated. A stream and wetland are adjacent to the south side of the site. The northern side is marshy and receives intermittent runoff from a small hill east of the site.

No cleanup or enforcement actions have been initiated.

5.2 LOCATION MAP



5.3 HRS WORKSHEETS

# HRS COVER SHEET

Facility Name:	Route 22 We	stside
Location:	Town of Dove	r, Dutchess County, New York
Lucation.		
EPA Region:	2	
Person(s) in cha	arge of the facility:	Whitney Aggregates, Inc.
		c/o Mr. James Hosie
		RD 2, Box 369F
		Rhinebeck, NY 12572
Name of Review	er: Mark Creage	r/Troy Goodman Date: 12 April 1989
	acility; contaminat	oundment, pile, container; types of hazardous substances; on route of major concern; types of information needed
Landfill acce	pted municipal	waste. Site is in wooded, rural area 1.75 miles
south of Dove	r Plains immedi	ately adjacent to Route 22. Wetland and stream a
	r Plains immedi	ately adjacent to Route 22. Wetland and stream a  A marsh and intermittent stream forms northern
contiguous to	southern fill.	
contiguous to	southern fill.	A marsh and intermittent stream forms northern
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water	southern fill. ace water is the	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water or enforcemen	southern fill.  ace water is the data should be actions have	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean
contiguous to border. Surf surface water or enforcemen  Scores: S <sub>M</sub> =	southern fill.  ace water is the data should be actions have	A marsh and intermittent stream forms northern e route of concern. Groundwater and additional collected to properly assess the site. No clean been initiated or completed.

# **GROUNDWATER ROUTE WORK SHEET**

	RATING FACTOR	ASSIGNED VALUE (circle one)	MULTIPLIER	SCORE	MAXIMUM SCORE	REFERENCE (section)
1	OBSERVED RELEASE	<b>①</b> 45	1	0	45	3.1
		<u>-</u>	2			
2	ROUTE CHARACTERISTIC	CS .			-	3.2
	Depth of Aquifer of Conce Net Precipitation Permeability of the Unsaturated Zone	$\begin{array}{cccc} 0 & 1 & 2 & \overline{3} \\ 0 & 1 & 2 & \overline{3} \end{array}$	2 1 1	6 3 1	6 3 3	
	Physical State	0 ① 2 3	1	1	3	
		Total Route Characteristics	Score	11	15	
3	CONTAINMENT	0 1 2 3	1	3	3	3.3
4	WASTE CHARACTERISTIC	\$				3.4
	Toxicity/Persistance Hazardous Waste Quantity	① 2 6 9 12 15 18 ① 1 2 3 6 5 6 7 8	1 1	0	18 8	
		Total Waste Characteristics	Score	0	26	
5	TARGETS					3.5
	Ground Water Use Distance to Nearest Well/Population Served	0 1 2 3 0 4 6 8 10 12 15 18 20 24 30 32 35 40	3 1	9 30	9 40	
				39	49	
6	If line 1 is 45, multiple  If line 1 is 0, multiple			0	57,330	
7	Divide line 6 by 57,330 a	nd multiply by 100	S <sub>GW</sub> =	not sc	ored	

# SURFACE WATER ROUTE WORK SHEET

	RATING FACTOR	ASSIGNED VALUE (circle one)	MULTIPLIER	SCORE	MAXIMUM SCORE	REFERENCE (section)
1	OBSERVED RELEASE	<b>0</b> 45	1	0	45	4.1
	If observed release is given	a value of 45, proceed to line 4	·	<u> </u>	<del>-</del>	
	if observed release is given	a value of 0, proceed to line 2				
2	ROUTE CHARACTERISTIC	<b>s</b>				4.2
	Facility Slope and	0 1 2 3	1	3	3	
	Intervening Terrain 1-yr 24-hr Rainfall Distance to Nearest	0 1 2 3 0 1 2 3	1	2	3	
<u> </u>	Surface Water		2	6 0	6	
	Physical State	0 1 2 3	1	U	3	
3		Total Route Characteristics	Score	11	15	
	CONTAINMENT	0 1 2 3	1	3	3	4.3
4	WASTE CHARACTERISTIC	cs .		4		4.4
	Toxicity/Persistance Hazardous Waste Quantity	0 2 6 9 12 15 18 0 1 2 3 4 5 6 7 8	1 1	12 1	18 8	
					<del></del>	٦
		Total Waste Characteristics	Score	13	26	
5	TARGETS			<del>-1 </del>		4.5
	Surface Water Use Distance to a Sensitive Environment		3 2	6 0	9 6	
	Population Served/ Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
		Total Targets Score		6	55	
6	If line 1 is 45, multiple 1 is 0, multiple 1			2574	64,350	
7	Divide line 6 by 64,350 a	nd multiply by 100	S <sub>BW</sub> =	4.00		. I

# AIR ROUTE WORK SHEET

	RATING FACTOR	ASSIGNED VALUE (circle one)	MULTIPLIER	SCORE	MAXIMUM SCORE	REFERENCE (section)
1	OBSERVED RELEASE	<b>①</b> 45	1	0	45	5.1
	DATE AND LOCATION:				,	
	SAMPLING PROTOCOL:				_	
	If line 1 is 0, then Se = 0	). Enter on line 5				·
2	WASTE CHARACTERISTIC	cs		-		5.2
	Reactivity and incompatibility	<b>0</b> 1 2 3	1	0	3	
	Toxicity Hazardous Waste Quantity	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3 8 1	9 1	9 8	
	,					,
		Total Waste Characteristic	s Score	10	20	
3	TARGETS					5.3
	Population Within 4-Mile Radius	0 9 12 15 18	1	15	30	
	Distance to Sensitive Environment	\$\begin{pmatrix} 21 & 24 & 27 & 30 \\ 0 & 1 & 2 & 3 \end{pmatrix}\$	2	0	6	
	Land Use	0 1 2 3	1	3	3	
			- · · · · · · · · · · · · · · · · · · ·	<u> </u>		<del>-</del> ,
		Total Targets Score	·	18	39	
4	Multiply 1 X 2 X	3			35,100	
5	Divide line 4 by 35,100 and multiply by 100 $S_A = 0$					

# WORKSHEET FOR COMPUTING $\mathbf{S}_{\mathbf{M}}$

·	S	S²
GROUNDWATER ROUTE SCORE (S <sub>GW</sub> )	not scored	-
SURFACE WATER ROUTE SCORE (S <sub>9W</sub> )	4.00	16.00
AIR ROUTE SCORE (S <sub>A</sub> )	0.0	0.0
S <sup>2</sup> <sub>GW</sub> + S <sup>2</sup> <sub>SW</sub> + S <sup>2</sup> <sub>A</sub>		not scored
$\sqrt{S_{\text{GW}}^2 + S_{\text{SW}}^2 + S_{\text{A}}^2}$		-
$S_{GW}^2 + S_{SW}^2 + S_A^2 / 1.73 (S_M)$		not scored

# FIRE AND EXPLOSION WORK SHEET

	RATING FACTOR	ASSIGNED VALUE (circle one)	MULTIPLIER	SCORE	MAXIMUM SCORE	REFERENCE (section)	
1	CONTAINMENT	1 3	1	3	3	7.1	
2	WASTE CHARACTERISTIC Direct Evidence Ignitability Reactivility Incompatibility Hazardous Waste Quantity	3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 4 5 6 7 8	1 1 1 1	0 2 8 1	3 3 3 3 8	7.2	
		Total Waste Characteristics 5	Score	3	20		
3	Distance to Nearest Popular Distance to Nearest Buildin Distance to Sensitive Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius		1 1 1 1	3 1 0 3 3 3	5 3 3 3 5	7.3	
4	Multiply 1 X 2 X	Total Target Score		13	1,440		
5	Divide line 4 by 1,440 and multiply by 100 S <sub>FE</sub> = not scored						

# DIRECT CONTACT WORK SHEET

	RATING FACTOR	ASSIGNED VALUE (circle one)	MULTIPLIER	SCORE	MAXIMUM SCORE	REFERENCE (section)		
1	OBSERVED INCIDENT	0 45	1	0	45	8.1		
	If line 1 is 45, proceed to line 4							
	If line 1 is 0, proceed to line 2							
2	ACCESSIBILITY	0 1 23	1	3	3	8.2		
3	CONTAINMENT	0 (5)	1	15	15	8.3		
4	WASTE CHARACTERISTICS TOXICITY	S 0 1 2(3)	5	15	15	8.4		
5	TARGETS					8.5		
	Population Within a 1-Mile Radius	0 1 2 3 4 5	4	8	20			
	Distance to a Critical Habita	it <b>(1)</b> 1 2 3	4	0	12			
						7		
		Total Targets Score		8	32			
6	If line 1 is 45, multip			5400	21,600			
7	Divide line 6 by 21,600	and multiply by 100	S <sub>pc</sub> =	25.00				

5.4 HRS DOCUMENTATION RECORDS

#### DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Route 22, Westside

LOCATION: Town of Dover, Dutchess County, New York

DATE SCORED: 12 April 1989

PERSON SCORING: Mark Creager/Troy Goodman

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):

New York State Department of Environmental Conservation - Region 3, New Paltz. New York

Dutchess County Health Department - Poughkeepsie, New York

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

SFE - No direct field evidence exists. A state or local fire marshal has not certified the site a fire or explosion threat.

COMMENTS OR QUALIFICATIONS:

#### GROUNDWATER ROUTE

## 1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No data

Rationale for attributing the contaminants to the facility:

No data; no observed release Assigned Value = 0

\* \* \*

## 2 ROUTE CHARACTERISTICS

# Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Hudson River Formation, Stockbridge Limestone, and overburden. No known continuous confining layer between the three units. Therefore, for HRS scoring purposes, these aquifers will be considered one hydrogeologic unit. Ref. 1

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

16 ft. Ref. 1

Depth from the ground surface to the lowest point of waste disposal/storage:

Estimate 15 to 20 ft Ref. 2

Depth from lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern (substract the above figures):

1 to 0 ft. In the 0 to 20 ft category Assigned Value = 3

## Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

44 in. Ref. 3

Mean annual lake or seasonal evaporation (list months for seasonal):

28 in. Ref. 3

Net precipitation (subtract the above figures):

16 in. In the greater than 15 in. category Assigned Value = 3

# Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Kendaia silty loam Ref. 4

Permeability associated with soil type:

 $10^{-5}$  to  $10^{-7}$  cm/sec Assigned Value = 1

## Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Solid Ref. 5 Assigned Value = 1

\* \* \*

## 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Landfill with no liner, landfill surface encourages ponding, no leachate collection system

Method with highest score:

No liner or incompatible liner Assigned Value = 3

\* \* \*

# 4 WASTE CHARACTERISTICS

# Toxicity and Persistence

Compound(s) evaluated:

No known contaminants in groundwater

Compound with highest score:

NA

## Hazardous Waste Quantity

Basis of estimating and/or computing waste quantity:

No known reports of landfill accepting hazardous waste. Assigned Value =  $\dot{0}$ 

\* \* \*

#### 5 TARGETS

## Groundwater Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water; no municipal water from alternate, unthreatened sources available Refs. 1 and 5
Assigned Value = 3

## Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

1800 ft SE of the site Ref. 7

Distance to above well or building:

1800 ft. In the less than 2000 ft category Assigned Value = 4

# Population Served by Groundwater Wells Within a 3-Mile Radius

Identified water supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

NAME	POPULATION SERVED	REF.
Dover Plains Water Company McCartha's Trailer Park High Meadows Park, Inc. May Lane Mobile Park Powell Road Mobile Park Private Homes (155 estimated)	1500 42 196 30 115 589	8 8 8 8 9
Total	2472	

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

No irrigated land known

Total population served by groundwater within a 3-mile radius:

2472. In the 1001 to 3000 category Assigned Value = 3 Matrix Value = 30

#### SURFACE WATER ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

None

Rationale for attributing the contaminants to the facility:

One leachate sample analysis exists (Ref. 6). However, these data do not satisfy the HRS observed release requirements. Therefore, no observed release occurred. Assigned Value = 0

\* \* \*

## 2 ROUTE CHARACTERISTICS

# Facility Slope and Intervening Terrain

Average slope of facility in percent:

0 to 1%. In the less than 3% category Ref. 2

Name/description of nearest downslope surface water:

Unnamed stream to the south and west

Average slope of terrain between facility and above-cited surface water body in percent:

The site is in surface water. Therefore: Matrix Score and Assigned Value = 3

Is the facility located either totally or partially in surface water?

Yes Ref. 2

Is the facility completely surrounded by areas of higher elevation?

No Ref. 3

# 1-Year 24-Hour Rainfall in Inches

2.75 in. In the 2.1 to 3.0 in. category Ref. 3
Assigned Value = 2

# Distance to Nearest Downslope Surface Water

Adjacent to (and in) surface water and marsh. In the less than 1000 ft category.

Ref. 2
Assigned Value = 3

# Physical State of Waste

Solid = 0 Ref. 5 Assigned Value = 0

\* \* \*

#### 3 CONTAINMENT

Method(s) of waste or leachate containment evaluated:

Landfill has adequate cover material = 0Diversion system unsound = 3 Method with highest score:

Diversion system unsound = 3 Ref. 2 Assigned Value = 3

\* \* \*

#### 4 WASTE CHARACTERISTICS

# Toxicity and Persistence

Compound(s) evaluated:

Phenol T/P Score = 12 Ref. 6

Compound with highest score:

Phenol Assigned Value = 12

# Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

1-10 cubic yards

Basis of estimating and/or computing waste quantity:

No hazardous waste is alleged. However, for HRS scoring purposes, the lowest nonzero number is used. Assigned Value = 1

\* \* \*

#### 5 TARGETS

## Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Fishing, recreation Ref. 10 Assigned Value = 2

Is there tidal influence?

No

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Greater than 2 miles Assigned Value = 0

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

0.44 miles SSW. In the 0.25 to 1 mile category Ref. 11 Assigned Value = 1

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

The following New York State-listed plants or colonies are found within a 1-mile radius of the site:

NAME	TYPE	STATE LEGAL STATUS
Chamaelirum luteum	Plant	Rare
Liparis lilifolia	Plant	Rare
Carex bicknellii	Plant	Rare
Appalachin Calcareous		
Rocky Summit	Colony	
Linum sulcatum	Plant	Rare
Bouteloua curtipendula	Plant	Endangered
Asclepias viridiflora	Plant	Rare
Draba reptans	Plant	Rare
Crotalus horridus	Animal	Threatened

Ref. 12

An endangered plant is found within 0.5 miles of the site. A rare plant is found within 0.25 miles of the site. However, they do not have Federal endangered or threatened status. Therefore:

Assigned Value = 0

# Population Served by Surface Water

Location(s) of water supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

0

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

None suspected or known

Total population served:

0

Name/description of nearest of above water bodies:

Unnamed tributary of Tenmile River. Tributary flows west of site.

Distance to above-cited intakes, measured in stream miles:

No intakes

#### AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

None

Date and location of detection of contaminants:

NA

Methods used to detect the contaminants:

HNU used during 1983 and 1988 site inspections Assigned Value = 0  $S_{\mbox{\scriptsize A}}$  = 0

Rationale for attributing the contaminants to the site:

NA

\* \* \*

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Phenol - 0 Refs. 6 and 13 Assigned Value = 0

Most incompatible pair of compounds:

None suspected Assigned Value = 0

# <u>Toxicity</u>

Most toxic compound:

Phenol - 3 Ref. 13 Assigned Value = 3

# Hazardous Waste Quantity

Total quantity of hazardous waste:

1-10 cubic yards

Basis of estimating and/or computing waste quantity:

No known reports of landfill accepting hazardous waste. However, for HRS scoring purposes, the lowest nonzero number will be used. Assigned Value = 1

\* \* \*

#### 3 TARGETS

# Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi	0 to 1 mi	(0 to 1/2 mi)	0 to 1/4 mi
Population = 4590 Value = 15	Population = 270 Value = 15	Population = 15 Value = 15	Population = 0 Value = 0

Ref. 9

Assigned Value = 15

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Greater than 2 miles Assigned Value = 0

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

0.44 miles SSW. In the 0.25 to 1 mile category Ref. 11 Assigned Value = 1

Distance to critical habitat of an endangered species, if 1 mile or less:

The following New York State-listed plants or colonies are found within a 1-mile radius of the site:

NAME	TYPE	STATE LEGAL STATUS
Chamaelirum luteum	Plant	Rare
<u>Liparis lilifolia</u>	Plant	Rare
<u>Carex</u> <u>bicknellii</u>	Plant	Rare
Appalachin Calcareous		
Rocky Summit	Colony	
<u>Linum sulcatum</u>	Plant	Rare
Bouteloua curtipendula	Plant	Endangered
Asclepias viridiflora	Plant	Rare
Draba reptans	Plant	Rare
Crotalus horridus	Animal	Threatened

Ref. 12

An endangered plant is found within 0.5 miles of the site. A rare plant is found within 0.25 miles of the site. However, they do not have Federal endangered or threatened status. Therefore:

Assigned Value = 0

#### Land Use

Distance to commercial/industrial area, if 1 mile or less:

Greater than 1 mile Ref. 2 Assigned Value = 0

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Greater than 2 miles Refs. 2 and 7 Assigned Value = 0

Distance to residential area, if 2 miles or less:

0.34 miles. In the 0.25 to 1 mile category Ref. 7
Assigned Value = 2

Distance to agricultural land in production within past 5 years, if 1 mile or less:

0.75 miles. In the 0.5 to 1 mile category Refs. 2 and 7 Assigned Value = 1

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

0.25 miles. In the less than 0.5 mile category Ref. 14
Assigned Value = 3

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within view of the site?

No Review of National Register (New York Section)

# FIRE AND EXPLOSION

## 1 CONTAINMENT

Hazardous substances present:

A state or local fire marshal has not certified that the site presents a significant fire or explosion threat to the public or to sensitive environments, and no data exist to demonstrate a threat. Therefore, this section not scored.

Type of containment, if applicable:

No containment Ref. 2 Assigned Value = 3

\* \* \*

# 2 WASTE CHARACTERISTICS

## <u>Direct Evidence</u>

Type of instrument and measurements:

No evidence Ref. 2 Assigned Value = 0

## <u>Ignitability</u>

Compound used:

Phenol = 2 Ref. 13 Assigned Value = 2

## Reactivity

Most reactive compound:

Phenol = 0 Ref. 13 Assigned Value = 2

## <u>Incompatibility</u>

Most incompatible pair of compounds:

None known Assigned Value = 0

# Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

1 to 10 cubic yards

Basis of estimating and/or computing waste quantity:

No known reports of the landfill accepting hazardous waste. However, for HRS scoring purposes, the lowest nonzero number will be used.

Assigned Value = 1

\* \* \*

## 3 TARGETS

# Distance to Nearest Population

0.34 miles. In the 201 ft to 0.5 mile category Ref. 7 Assigned Value = 3

# Distance to Nearest Building

0.34 miles. In the 201 ft to 0.5 mile category Ref. 7
Assigned Value = 1

# Distance to Sensitive Environment

Distance to wetlands:

Greater than 100 ft Ref. 11 Assigned Value = 0

## Distance to critical habitat:

The following New York State-listed plants or colonies are found within a 1-mile radius of the site:

Plant	Rare
Plant	Rare
Plant	Rare
Colony	
Plant	Rare
Plant	Endangered
Plant	Rare
Plant	Rare
Animal	Threatened
	Plant Plant Colony Plant Plant Plant Plant Plant

Ref. 12

An endangered plant is found between 1000 ft and 0.5 miles of the site. A rare plant is found within 500 ft of the site. However, they do not have Federal endangered or threatened status.

Therefore:

Assigned Value = 0

#### <u>Land Use</u>

Distance to commercial/industrial area, if 1 mile or less:

Greater than 1 mile. Ref. 2 Assigned Value = 0

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Greater than 2 miles Refs. 2 and 7 Assigned Value = 0 Distance to residential area, if 2 miles or less:

0.34 miles. In the 0.25 to 1 mile category Ref. 7 Assigned Value = 2

Distance to agricultural land in production within past 5 years, if 1 mile or less:

0.75 miles. In the 0.5 to 1 mile category Refs. 2 and 7 Assigned Value = 1

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

0.25 miles. In the less than 0.5 mile category Ref. 14 Assigned Value = 3

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within view of the site?

No Review of National Register (New York Section)

# Population Within 2-Mile Radius

1132. In the 1001 to 3000 category Ref. 9 Assigned Value = 3

# Buildings Within 2-Mile Radius

298. In the 261 to 790 category Ref. 9
Assigned Value = 3

## DIRECT CONTACT

## 1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No direct contact incident reported Assigned Value = 0

\* \* \*

## 2 ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the facility. Ref. 2
Assigned Value = 3

\* \* \*

# 3 CONTAINMENT

Type of containment, if applicable:

Leachate available to direct contact Refs. 2 and 5 Assigned Value = 15

\* \* \*

# 4 WASTE CHARACTERISTICS

# <u>Toxicity</u>

Compounds evaluated:

Pheno1

Compound with highest score:

Phenol = 3 Ref. 13 Assigned Value = 3

21

## 5 TARGETS

# Population Within 1-Mile Radius

270. In 101 to 1000 category Ref. 9
Assigned Value = 2

# Distance to Critical Habitat (of Endangered Species)

The following New York State-listed plants or colonies are found within a 1-mile radius of the site:

NAME	TYPE	STATE LEGAL STATUS
Chamaelirum luteum	Plant	Rare
Liparis lilifolia	Plant	Rare
Carex bicknellii	Plant	Rare
Appalachin calcareous		
Rocky Summit	Colony	
<u>Linum sulcatum</u>	Plant	Rare
Bouteloua curtipendula	Plant	Endangered
Asclepias viridiflora	Plant	Rare
Draba reptans	Plant	Rare
Crotalus horridus	Animal	Threatened

Ref. 12

An endangered plant is found within 0.5 miles of the site. A rare plant is found within 0.25 miles of the site. However they do not have Federal endangered or threatened status. Therefore:

Assigned Value = 0

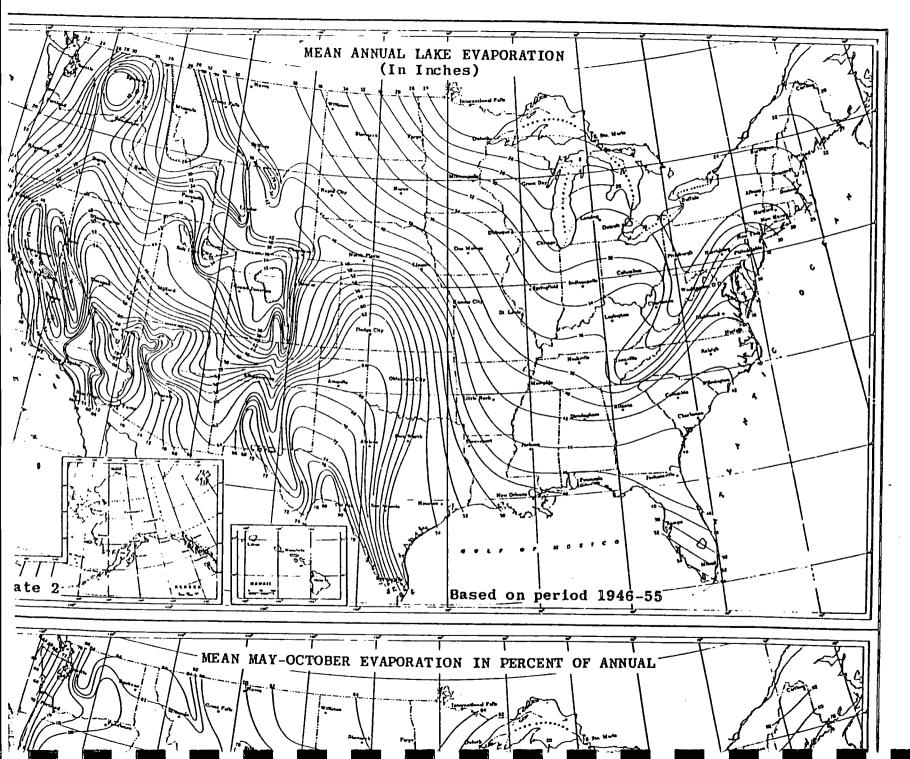
5.5 HRS REFERENCES

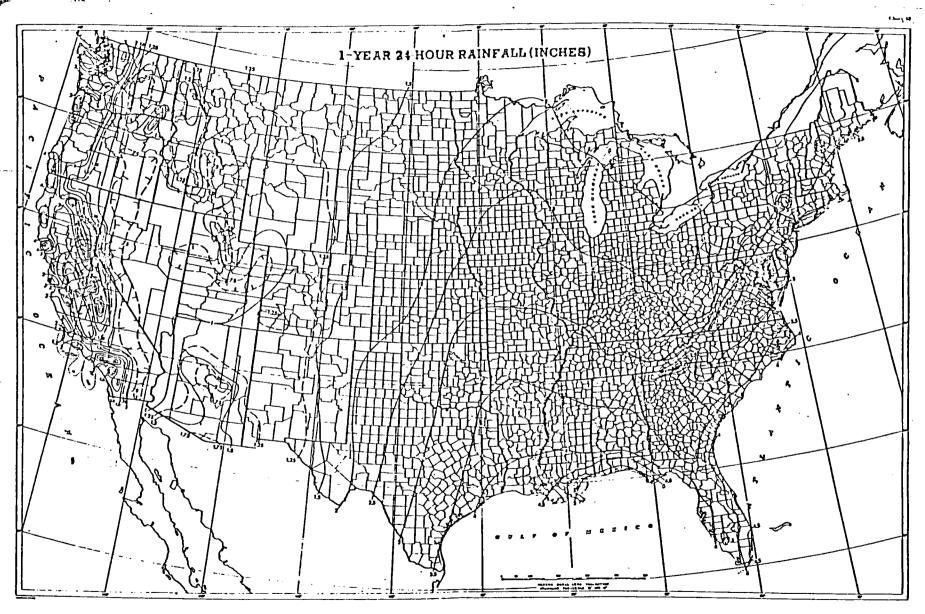
## HRS REFERENCES

- [1] Ground-Water Resources of Dutchess County, New York (Ref. 8, Appendix A, this report).
- [2] LMS 15 December 1988 site inspection (Chapter 3, this report).
- [3] Rainfall and evaporation maps.
- [4] Soil Survey of Dutchess County, New York (Ref. 7, Appendix A, this report).
- [5] NUS Site Inspection Report (Ref. 3, Appendix A, this report).
- [6] Analytical data (Ref. 9, Appendix A, this report).
- [7] USGS Topographic Map (Figure 5-1, this report).
- [8] New York State Department of Health. 1982. New York State Atlas of Community Water System Sources, pp. 66 and 67
- [9] House count.
- [10] 6 NYCRR (Ref. 6, Appendix A, this report).
- [11] New York State Wetlands Map (Ref. 5, Appendix A, this report).
- [12] Review of NYSDEC Significant Habitat Unit files.
- [13] HRS Users Manual.
- [14] Letter from the Soil Conservation Service regarding prime soils.

REFERENCE 3

# and the second second ANNUAL TOTAL PRECIPITATION (Inches) International Falls Dapadaeg North Plats Kansas Ciey Dodge City Oklahoma City Courte ( San Anh el Ri 480- AT MT. Brown 140-TEAN MEAN 198\* Caution should interpolating on eralized maps, pa in mountainous ar





REFERENCE 8

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New York State Atlas of Community Water System Sources 1982

**DIVISION OF ENVIRONMENTAL PROTECTION** 

REFERENCE

## DUTCHESS COUNTY

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#### PUTNAM COUNTY

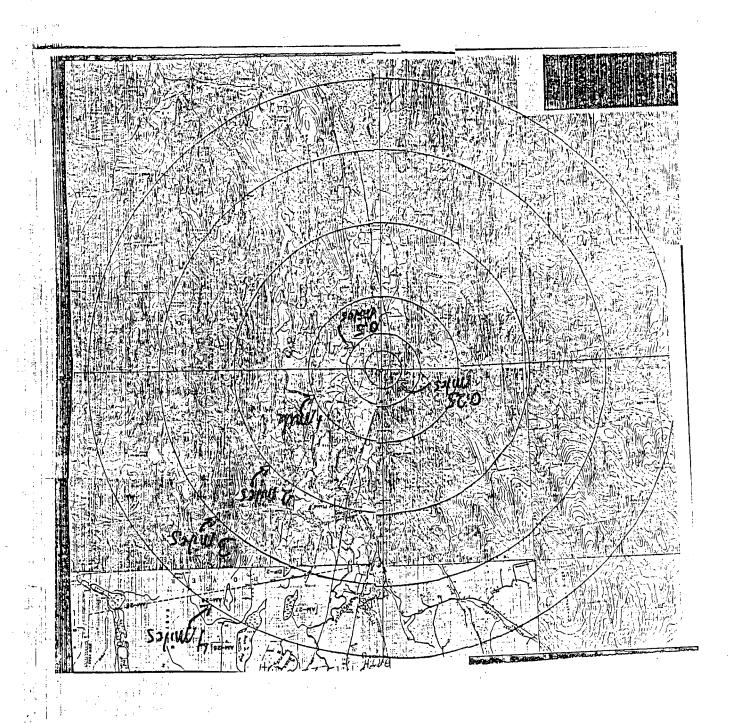
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REFERENCE 9



HRS REFERENCE 9
HOUSE COUNT

RADIUS		QUADR	ANT		
<u>(miles)</u>	NE	SE	SW	NW	TOTAL
0-0.25	0	0 .	0	0	0
0.25-0.5	0	4	0	0	4.
0.5-1	40	25	2	0	67
1-2	101	84	34	8	227
2-3	250	124	31	79	484
3-4	96	229	13	88	426

TOTAL RADIUS		QUADR	ANT			POPULATION		
(miles)	NE	SE	SW	NW	TOTAL	TOTAL (x 3.8)		
0-0.25 0-0.5 0-1 0-2 0-3 0-4	0 0 40 141 391 487	0 4 29 113 237 466	0 0 2 36 67 80	0 0 0 8 88 176	0 4 71 298 783 1209	0 15 270 1,132 2,975 4,590		

House count taken from Dover Plains (1971), Amenia (1973), Verbank (1960), and Milbrook (1960).

REFERENCE 13

SEPA

DIRECTIVE NUMBER:

9355.0-3

TITLE:

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual

APPROVAL DATE:

07/16/82

EFFECTIVE DATE:

07/16/82

**ORIGINATING OFFICE:** 

OERR/OPM

**FINAL** 

☐ DRAFT

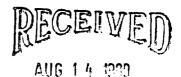
STATUS:

REFERENCE (other documents):

REFERENCE 14

Soil Conservation Service P.O. Box 37 Millbrook, NY 12545 914-677-3194

August 9, 1989



LAYMLER, MATUS

Edward A. Maikish, P.E.
Lawler, Matusky & Skelly Engineers
One Blue Hill Plaza
P.O. Box 1509
Pearl River, NY 10965

LAWLER, MATUSKY & SKELLY ENGINEERS

Dear Mr. Maikish:

Enclosed are the soils maps with prime soils marked for the nine landfill locations that you requested. The distance to prime soils for each site are:

Landfill Site

Distance to Prime Soils (miles)

Rt. 22 Westside

0.25

Please feel free to contact me if you need additional information.

Sincerely,

72 best 1 0.540

Robert F. Dibble District Conservationist

RFD/bas

Enclosures



5.6 EPA POTENTIAL HAZARDOUS WASTE SITE, SITE INSPECTION REPORT (FORM 2070-13)

\$EPA		ENTIAL HAZAR SITE INSPECT E LOCATION AND	TION RI	EPORT	IATION		SITE NUMBER 09805081	39
II. SITE NAME AND LOCA								
D1 SITE NAME (Legal common or			<u> </u>		PECIFIC LOCATION I	DENTIFIER		
Route 22 Wests	side		Rout				1	44.05
oscar Dover			1	05 ZIP CODE 12522	Dutchess		07COUNTY CODE 27	25
09 COORDINATES 41 47 UDE 37 N	073 LONGTUDE 15 W	10 TYPE OF OWNERS	D B FEI		D C. STATE D	COUNTY I		4
III. INSPECTION INFORM								
12 15,88	D2 SITE STATUS  ACTIVE  INACTIVE	l	67		<u>1</u> 974u	INKNOWN		
D4 AGENCY PERFORMING INSP		BEG	INNING YE	TH ENDING YEA	<u> </u>		-	
□ A EPA □ B EPA CO	ONTRACTOR LMS En	Zīńeers			AUNICIPAL CONTR	ACTOR	(Name of firm.	
	CONTRACTOR		D G O		150ec4v	tion. I	DB TELEPHONE	NO.
05 CHIEF INSPECTOR		06 TITLE	4 7	C - d d		-	( )	-
Mark Creager		Environme	ntal	Scientist	LMS Eng		914) 735	
om other inspectors Maritza Montesi	nos-Gross	Environm	ental	Engineer		1	(914) 735	
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13 STE REPRESENTATIVES IN . James Hosie	TERVIEWED	V.P. of		nsadoress RD 2, Box	369F,Rhine	beck	16 TELEPHONE (914229	
		Whitney	Ì	New York,	12572		( )	<u>-</u> _
		Aggregate	s,				( )	
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17 ACCESS GAMED BY	18 TIME OF INSPECTION	19 WEATHER CON	IOTTIONS					
(Chock one)    PERMISSION   WARRANT	1610	Sunny, 1	ight 1	breeze, 40	e <sub>F</sub>		.,,	
IV. INFORMATION AVAIL	LABLE FROM							

02 OF (Agoncy/Organization)

05 AGENCY

NYSDEC/DHWR/BHSC

D6 ORGANIZATION

LMS Engineers

03 TELEPHONE NO

08 DATE

07 TELEPHONE NO. 914/

735<u>-8300</u>

(518) 457-0639

4 18 89

Michael Komoroske

Edward A. Maikish

04 PERSON RESPONSIBLE FOR SITE PASPECTION FORM

01 CONTACT

_		~ ~
4		J.V.
P0		
<b>VA 5</b> 7	Harman II	# - K

# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

\$E		101		TION REPORT E INFORMATION		NY D980	UMBER 508139
II. WASTES	TATES, QUANTITIES, AN	D CHARACTERI	STICS				
	TATES (Choes & Mar conv)  DE SLURRY REPRES DE LIQUID E DE GAS	OZ WASTE QUANTI (Modure) e mul per TONS _		D3 WASTE CHARACTE  C A TOXIC  C B COMBO  C RADIOA  D D PERSIST  UNKNOWN	CTIVE DB FLAME	ILE DI HOGHLY VI	VE /E ATIBLE
		1000000		L			
III. WASTET	SUBSTANCE N	A145	la:				
SLU	SLUDGE		01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	<del></del>	
OLW	OILY WASTE		<del></del>				
<del></del>		<del></del>					
SOL	SOLVENTS						
PSD	PESTICIDES					<del> </del>	
0000	OTHER ORGANIC CH				<u> </u>		
юс	INORGANIC CHEMIC	ALS	<del> </del>	<del> </del>	77 7 7		
ACD	ACIDS		unknown	<u> </u>	No nazardo	us waste sus	pected
BAS	BASES				N- 11-		
MES	HEAVY METALS	<del></del>	unknown	l	No nazardo	<u>us waste sus</u>	<u>pected</u>
<del></del>	OUS SUBSTANCES 1544 AS		1			D5 CONCENTRATION	DE MEASURE OF
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	Phenol		108-95-2	Landfill			mg/l
MES	Iron		7439-89-6	11		30.6	-
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V. FEEDSTO	CKS (See Appends to CAS Month						
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FDS	n/a			FDS			
FDS			1	FD\$			
FDS			1	FDS			
FDS				FDS			
VI. SOURCES	S OF INFORMATION (C)	specific references # #	packs State appropriate production	C30-181			
	ss County Healt						
Darene	os ocumey meate	Deparem	Cit (DOID)				

SEPA
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### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

O1 STATE 02 STE NUMBER

NY D980508139

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

01 E A GROUNDWATER CONTAMINATION	02 TOBSERVED (DATE)	E) POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION	helow water	table.
Groundwater may be affected if lead	mate initituates directly	DETOM MUTEL	
		_	
01 D B SURFACE WATER CONTAMINATION	02 D OBSERVED (DATE)	C POTENTIAL	C ALLEGED
D3 POPULATION POTENTIALLY AFFECTED	D4 NARRATIVE DESCRIPTION		
One leachate sample detects iron an	nd phenol.		
One reachage sample detects from an	F		
			ļ
D1 I C CONTAMINATION OF AIR	02 C OBSERVED (DATE)	D POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
No history.			
110 1120 6027			
01 Z D FIRE EXPLOSIVE CONDITIONS	02 TOBSERVED (DATE)	S POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
No history.			
01 D E DIRECT CONTACT	02 C OBSERVED (DATE)	D POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
Diment contact from surface water	leachate, by hunters from	local fish a	nd game club.
Direct contact from surface water	leachate, by hunters from	local fish a	nd game club.
Direct contact from surface water	leachate, by hunters from	local fish a	nd game club.
Direct contact from surface water			
01 B F CONTAMINATION OF SOIL	02 TOBSERVED (DATE)	local fish a	and game club.
01 EF CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION		
01 EF CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION		
01 E F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION		
01 EF CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.	[] POTENTIAL	C ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED (Acros)  Leachate may contaminate soil imme	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.	[] POTENTIAL	
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.	[] POTENTIAL	C ALLEGED
01 D F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	[] POTENTIAL	C ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED (Acros)  Leachate may contaminate soil imme	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	[] POTENTIAL	C ALLEGED
01 D F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	[] POTENTIAL	C ALLEGED
01 D F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.	[] POTENTIAL	C ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.	D POTENTIAL	□ ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.	D POTENTIAL	□ ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data  01 Th WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.	D POTENTIAL	□ ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.	D POTENTIAL	□ ALLEGED
01 B F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data  01 Th WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED □ ALLEGED
O1 B F CONTAMINATION OF SOIL  03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data  01 D H WORKER EXPOSURE/NUURY 03 WORKERS POTENTIALLY AFFECTED  No history.	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED
O1 B F CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  O1 B G DRINKING WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data  O1 D H WORKER EXPOSURE/NJURY O3 WORKERS POTENTIALLY AFFECTED  No history.	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED □ ALLEGED
O1 B F CONTAMINATION OF SOIL  03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data  01 D H WORKER EXPOSURE/NUURY 03 WORKERS POTENTIALLY AFFECTED  No history.	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  diately adjacent to fill.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION  on groundwater quality.  02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED □ ALLEGED
O1 B F CONTAMINATION OF SOIL  03 AREA POTENTIALLY AFFECTED  Leachate may contaminate soil imme  01 B G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED  No wells within 1800 ft. No data  01 D H WORKER EXPOSURE/NUURY 03 WORKERS POTENTIALLY AFFECTED  No history.	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL  POTENTIAL	☐ ALLEGED  □ ALLEGED

	F-1	DA.
W-0		$-\lambda\lambda$

## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS	s NY D9	980508139
IL HAZARDOUS CONDITIONS AND INCIDENTS (Continued)		•	
01 D. J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE)	D POTENTIAL	D ALLEGED
No history. None observed.			
D1 D K DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name) 5: 0/3000ces	02 D OBSERVED (DATE)	@ POTENTIAL	C ALLEGED
Possible. Past site reports note	leachate in surface water.		
D1 C L CONTAMINATION OF FOOD CHAIN D4 NARRATIVE DESCRIPTION	02 J OBSERVED (DATE]	D POTENTIAL	C ALLEGED
Unknown.			
D1 D M UNSTABLE CONTAINMENT OF WASTES  (Spies Runor Standing Bourds Lawling Brums)	02 D OBSERVED (DATE 12/79 )	E POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
Leachate entering surface water.			
01 T N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 3 OBSERVED (DATE)	D POTENTIAL	D ALLEGED
No history.			
D1 = 0 CONTAMINATION OF SEWERS STORM DRAINS, WWTPS 24 NARRATIVE DESCRIPTION N/A	02 - OBSERVED (DATE)	C POTENTIAL	□ ALLEGED
DI C P ILLEGAL/UNAUTHORIZED DUMPING DI NARRATIVE DESCRIPTION	02 C OBSERVED (DATE)	D POTENTIAL	D ALLEGED
No history.			
DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	ED HAZARDS	<del>-</del>	
•			
I. TOTAL POPULATION POTENTIALLY AFFECTED: unkn	own.	· <del> </del>	
COMMENTS		<del></del> -	
SOURCES OF INFORMATION (CO DOCAL INFORMATION & C. MINE NO. LA	PROMI PROVINCE PODOME ;	<del></del>	<del></del>
DCHD LMS Site Inspection, 12/15/88.			

II. PERMIT INFORMATION  Of type of PERMIT ISSUED  (Check of the coop):  TA IMPDES  B UIC  T C AIR  T D RCRA  T E RCRA INTERIM STATUS		SITE INS	PECTI	WASTE SITE ON TIVE INFORMATI 04 EXPIRATION DATE	ON	I. IDENTIFICATION O1 STATE O2 SITE NUMBER NY D980508139
☐ F SPCC PLAN ☐ G STATE Specify ☐ H LOCAL Specify ☐ 1 OTHER/Specify ☐ J NONE						
☐ A. SURFACE IMPOUNDMENT ☐ B PILES ☐ C DRUMS. ABOVE GROUND ☐ D TANK. ABOVE GROUND ☐ E TANK, BELOW GROUND	nknown	OF MEASURE	D A. B. D D. E. V. D D F. S. D H. C	EATMENT (Choca de mai de NCENERATION UNDERGROUND INJECHEMICAL/PHYSICA BROLOGICAL NASTE OIL PROCESS SOLVENT RECOVERY OTHER RECYCLING/OTHER (Associated in the Naste of the Nast	ECTION L SING Y RECOVERY	OS OTHER  DA. BUILDINGS ON SITE  A  DB AREA OF SITE  1  (Acres.
IV. CONTAINMENT  01 CONTAINMENT OF WASTES (Check one)  □ A ADEQUATE, SECURE	□ B MODERATE	D C E	NADEOL	JATE, POOR	D. INSEC	URE, UNSOUND, DANGEROUS
No known liner.	ARVERS, ETC					
V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE D YES 02 COMMENTS  Waste covered.			2011.			
DCHD LMS Site Inspection,		ample profysic re	290πε, 			

\$ EPA	POTE	ENTIAL HAZAF SITE INSPEC I, DEMOGRAPHI	TION REP	ORT		I. IDENTIFICATION DI STATE DZ S. É NUMBER NY D980508139
II. DRINKING WATER SUPPLY						
01 TYPE OF DRINKING SUPPLY		02 STATUS	<del></del>			03 DISTANCE TO SITE
(Chock as companies). SURFAC	CE WELL	ENDANGER	ED AFFE	· ·	MONITORED	
COMMUNITY A D	B []	A. D	B.1		C D	A. 2.0 (mi)
NON-COMMUNITY C 🗆	DG	D D	E. 1	<b>D</b>	F. 🖸	B 0.34 (mi)
III. GROUNDWATER		<u> </u>				
01 GROUNDWATER USE IN VICINITY (CA	oct one					<u> </u>
T A ONLY SOURCE FOR DRINKING	(Other sources evens	DUSTRIAL, FARIGATIO	(Let	DMMERCIAL mind priner source	RIDUSTRIAL, (ARIGATIO con evocabre)	N D D NOT USED, UMUSEABLE
02 POPULATION SERVED BY GROUND I	WATER 2472 (esti	imated)	03 DISTANCE	E TO NEARES	ST DRINKING WATER WE	u 0.34 (mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	DUNDWATER FLOW	06 DEPTH TO OF CONCI		07 POTENTIAL YIELD	08 SOLE SOURCE AQUIFER
16 (4)	unknow	n	1	-		gpd) DYES DNO
09 DESCRIPTION OF WELLS INCHORGING	soe Booff and location regime to	population and budgings	<u> </u>		1	
Town of Dover is su private wells.	upplied by mur	nicipal wel	ls. Su		ling rural a	rea supplied by
10 RECHARGE AREA			C YES	COMMENT	's	
☐ YES   COMMENTS			□ NO	O O I O I O I O I O I O I O I O I O I O		
IV. SURFACE WATER		<del></del>	<u> </u>			
01 SURFACE WATER USE (Choca one)						
D A. RESERVOIR, RECREATION DRINKING WATER SOURCE		N. ECONOMICALLY IT RESOURCES		OMMERCIA	AL, PADUSTRIAL	D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED	BODIES OF WATER					
NAME					AFFECTED	DISTANCE TO SITE
Unnamed creek west	of site					0.04 (m)
Tenmile River						
						(mi)
V. DEMOGRAPHIC AND PROPER	TY INFORMATION					
01 TOTAL POPULATION WITHIN				02	DISTANCE TO NEAREST	POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (	3) MILES OF S	HTE .		
A _ 270	B _ 1132 _	C.,	2975			) <u>. 34 (mi)</u>
03 NUMBER OF BUILDINGS WITHIN TWO			04 DISTANCE	TO NEARES	T OFF-BITE BUILDING	
298					0.34	<i>t</i> —:h
	<del></del>		l			(mi)
OS POPULATION WITHIN VICENTY OF SIT Sparsely populated mately 1.75 miles r	area. Villag	ge of Dover				people) approxi-

ſ ·			<del></del>
AFDA		ARDOUS WASTE SITE	I. IDENTIFICATION
PAI		CTION REPORT HIC, AND ENVIRONMENTAL DATA	NY D980508139
VI. ENVIRONMENTAL INFORMATION	TI J. WATER, DEMOGRAFI	HIC, AND ENVIRONMENTAL DATA	Est Deserver.
DI PERMEABILITY OF UNSATURATED ZONE (Check	Date .		<del></del>
		C 10-4 - 10-3 cm/dec D D GREATER	THAN 10 <sup>-3</sup> cm/sec
02 PERMEABILITY OF BEDROCK Check one			
☐ A IMPERMEABLE ILUSS Man 10 <sup>-0</sup> cm sec	D B RELATIVELY IMPERMEAE	BLE DC RELATIVELY PERMEABLE DD	VERY PERMEABLE (Grooter mon 10 <sup>-2</sup> cm sec.
D3 DEFTH TO BEDROCK 04 DEPTH	OF CONTAMINATED SOIL ZONE	05 SOIL PH	
(Ħ)	(ft)		
DE NET PRECIPITATION D7 ONE YE	EAR 24 HOUR RAINFALL	OB SLOPE	
(in)	2.75 (in)	SITE SLOPE DIRECTION OF SITE SI	LOPE TERRAIN AVERAGE SLOPE
09 FLOOD POTENTIAL	10		
SITE IS IN YEAR FLOODPLAIN	D SITE IS ON BARR	IIER ISLAND, COASTAL HIGH HAZARD AREA.	RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS 5 acre		12 DISTANCE TO CRITICAL HABITAT (of precional	
ESTUARINE	OTHER	<0.2	(mi)
A	0.44 (mi)	ENDANGERED SPECIES ghamae	lirum lutem <sup>a</sup>
13 LAND USE IN VICINITY			
DISTANCE TO			
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS NATIO FORESTS, OR WILDLIF		CULTURAL LANDS D AG LAND
A(mi)	в0.34	(mi) c 0.25	(ml) D 0.75 (mi)
A DESCRIPTION OF SITE IN RELATION TO SURROU			
approximately 300 ft hill is east of the	west. North Moun	Penn Central railroad tain lies 500 ft west. 22.	trends north-south A smaller unnamed
<sup>a</sup> New York State rare	nlant		
	prant		
<del></del> .			
II. SOURCES OF INFORMATION ICAG BOOCA			<del></del>
USGS Topographic Map. LMS site visit		-CT	ı
Soil Conservation Ser NYSDEC Significant H			

AFRA		F	OTENTIAL HAZARDO	US WASTE SITE	L IDENTIFK	
SEPA			SITE INSPECTION ART 6 - SAMPLE AND FI	N REPORT	NY I	980508139
II. SAMPLES TAKEN					<del></del>	
SAMPLE TYPE		01 MUNEBER OF SAMPLES TAKEN	02 SAMPLES SENT TO			OJ ESTIMATED DATE FESULTS AVALABLE
GROUNDWATER						
SURFACE WATER						
WASTE						
AIR						
RUNOFF						
SPILL						
SOIL						
VEGETATION						
OTHER Leacha	te	_1	Camo/Poughkeeps	ie, NY		available
III. FIELD MEASUREM	ENTS TAK	EN				
01 TYPE		02 COMMENTS				
HNU		No readings	above backgroun	d.		
						<del></del>
<del></del>				<del></del>		
				<del></del>		
<del> </del>		·				
IV. PHOTOGRAPHS A	ND MAPS					
O1 TYPE @ GROUND [			2 IN CUSTODY OF NUS C	Orp. Edison. NJ/LMS	Engineer	5
	LOCATION O		neers, Pearl Ri	TOM MV		
				ver, Ni		
V. OTHER FIELD DATA	COLLEC	TED :Provide nerrouve doscr	Pitoni			
					•	
VI. SOURCES OF INFO	RMATION	/Cite apecific reterences: e.g.	stare Nes sumpre protysis roports;	<del></del>	<del></del>	
NUS Corp.					<del></del>	
LMS Site Ins	spectio	on, 12/15/88				
20112						

NAME	\$EPA			ECTION REPORT NER INFORMATION		5980508139
MANNE	I. CURRENT OWNER(S)			PARENT COMPANY IF EDITIONS.		
11 STREET ADDRESS.IF C Bit INFO FEET   11 SEC CODE   10 STREET ADDRESS.IF C Bit INFO FEET   11 SEC CODE   12 CTT   13 STATE   14 2 PF CODE   11 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   12 CTT   13 STATE   14 2 PF CODE   11 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   11 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   12 CTT   13 STATE   14 2 PF CODE   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   15 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   15 STATE   17 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   15 STATE   17 STATE	1 NAME	C	2 D+B NUMBER	OB NAME	-	9 D+B NUMBER
11 STREET ADDRESS.IF C Bit INFO FEET   11 SEC CODE   10 STREET ADDRESS.IF C Bit INFO FEET   11 SEC CODE   12 CTT   13 STATE   14 2 PF CODE   11 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   12 CTT   13 STATE   14 2 PF CODE   11 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   11 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   12 CTT   13 STATE   14 2 PF CODE   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   13 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   15 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   15 STATE   17 STATE   14 2 PF CODE   15 STREET ADDRESS.IF C Bit INFO FEET   15 STATE   17 STATE	Whitney Aggregates, Inc.					
11 NAME			04 SIC CODE	1D STREET ADDRESS (P.O. Dos. RFD # orc )		11 SIC CODE
11   12   12   13   13   14   14   15   16   16   16   16   16   16   16	is city toe	STATE	)7 ZIP CODE	12 CITY	13 STATE	I 4 ZIP CODE
The column   The	c/o James Hosie	C	)2 D+8 NUMBER	OB NAME	ļ	D9 D+B NUMBER
### Rhinebeck   NY   12572   09 De NUMBER   09 DE N			04 SIC CODE	10 STREET ADORESS IP O DOS. RFD # OIC I		11 SIC CODE
DI NAME	05 CITY O			12 C/TY	13 STATE	14 ZIP CODE
DI SAREET ADDRESS (P. D. BOLL APER SIZE)  DO STATE D7 ZIP CODE  12 CITY  13 STATE 14 ZIP CODE  10 STREET ADDRESS (P. D. BOLL APER SIZE)  DO STATE D7 ZIP CODE  10 STREET ADDRESS (P. D. BOLL APER SIZE)  DO STATE D7 ZIP CODE  11 STREET ADDRESS (P. D. BOLL APER SIZE)  DO STATE D7 ZIP CODE  11 STREET ADDRESS (P. D. BOLL APER SIZE)  DO STATE D7 ZIP CODE  12 CITY  13 STATE 14 ZIP CODE  11 SIC CO  11 STREET ADDRESS (P. D. BOLL APER SIZE)  DO STATE D7 ZIP CODE  D1 NAME  D2 D+B NUMBER  D3 STREET ADDRESS (P. D. BOLL APER SIZE)  D4 SIC CODE  D5 CITY  D6 STATE D7 ZIP CODE  D7 SIZE ADDRESS (P. D. BOLL APER SIZE)  D6 STATE D7 ZIP CODE  D7 SIZE ADDRESS (P. D. BOLL APER SIZE)  D8 STATE D7 ZIP CODE  D8 STATE D7 ZIP CODE  D9 STATE D7 Z			02 D+B NUMBER	D8 NAME		09 D+B NUMBER
DI NAME  OS STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  10 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  11 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  11 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O7 ZIP CODE  O8 STATE OF ZIP CODE  O8 STATE OF ZIP CODE  O8 STATE OF ZIP CODE  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STATE OF ZIP CODE  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STATE OF ZIP CODE  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STATE OF ZIP CODE  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STATE OF ZIP CODE  O9 STATE OF ZIP CODE  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STATE OF ZIP CODE  O9 STREET ADDRESS IP O BOX AFD & SEC. 1  O9 STATE OF ZIP CODE  O1 NAME  O2 D+B NUMBER  O1 NAME  O2 D+B NUMBER  O3 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O1 NAME  O2 D+B NUMBER  O3 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O1 NAME  O2 D+B NUMBER  O3 STREET ADDRESS IP O BOX AFD & SEC. 1  O4 SIC CODE  O3 STREET ADDRESS IP O BOX AFD & SEC. 1  O4 SIC CODE  O3 STREET ADDRESS IP O BOX AFD & SEC. 1  O4 SIC CODE  O5 STREET ADDRESS IP O BOX AFD & SEC. 1  O4 SIC CODE  O5 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O5 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O5 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O5 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O5 STREET ADDRESS IP O BOX AFD & SEC. 1  O6 STATE OF ZIP CODE  O6 STATE OF ZIP CODE  O6 STATE OF ZIP CODE	D3 STREET ADDRESS IP D BOY RED # DE		D4 SIC CODE	10 STREET ADDRESS (P 0 Dos RFD # etc :		11 SIC CODE
D3 STREET ADDRESS IP 0 BOL RED # DIE :  O4 SIC CODE  10 STREET ADDRESS IP 0 DOL RED # DIE :  O5 CITY  O6 STATE 07 ZIP CODE  11 STREET ADDRESS IP 0 DOL RED # DIE :  O6 STATE 07 ZIP CODE  O7 ZIP CODE  O8 STATE 07 ZIP CODE  O9 STREET ADDRESS IP 0 DOL RED #	D5 CITY O	6 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
OS CITY  OB STATE O7 2IP CODE  12 CITY  13 STATE 14 2IP CODE  III. PREVIOUS OWNER(S) Les most recent fert  IV. REALTY OWNER(S) IF genération les most recent fert fert fert fert fert fert fert fer	O1 NAME		02 D+B NUMBER	OB NAME		09 D+B NUMBER
III. PREVIOUS OWNER(S) :Let most recent that  IV. REALTY OWNER(S) : repostable tot most recent that:  IV. REALTY OWNER(S) : repost recent that:  IV. REALTY OWNER(S) : repost recent that:  IV. REALTY	D3 STREET ADDRESS (P O Box AFD + etc.)		04 SIC CODE	10 STREET ADDRESS IP O Dos. RFD # ofc	10 STREET ADDRESS (P O Dos. RFD # orc )	
101 NAME 102 D+B NUMBER 103 STREET ADDRESS (P 0 Box AFD F otc.)  104 SIC CODE 105 CITY 105 CITY 106 STATE   07 ZIP CODE 107 NAME 108 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.)  109 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.)  100 STATE   07 ZIP CODE 101 NAME 102 D+B NUMBER 103 STREET ADDRESS (P 0 Box AFD F otc.)  104 SIC CODE 105 CITY 106 STATE   07 ZIP CODE 107 CITY 108 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.)  109 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.)  100 STATE   07 ZIP CODE 101 NAME 102 D+B NUMBER 103 STREET ADDRESS (P 0 Box AFD F otc.)  104 SIC CODE 105 CITY 106 STATE   07 ZIP CODE 107 STREET ADDRESS (P 0 Box AFD F otc.)  108 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.)  109 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.) 109 STATE   07 ZIP CODE 109 STREET ADDRESS (P 0 Box AFD F otc.) 109 STATE   07 ZIP CODE 109 STATE   07 ZIP CODE 109 STATE   07 ZIP CODE	OS CITY C	X STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Mr. Stanley Lewis  O3 STREET ADDRESS IP O DOL RED #C    O4 SIC CODE  O5 CITY  Katonah  O1 NAME  Mr. Fred Lee (deceased)  O4 SIC CODE  O5 CITY  O6 STATE O7 ZIP CODE  O3 STREET ADDRESS IP O DOL RED # OE    O6 STATE O7 ZIP CODE  O5 CITY  O6 STATE O7 ZIP CODE  O1 NAME  O2 D+B NUMBER  O1 NAME  O2 D+B NUMBER  O1 NAME  O2 D+B NUMBER  O1 NAME  O3 STREET ADDRESS IP O DOL RED # OE    O6 STATE O7 ZIP CODE  O3 STREET ADDRESS IP O DOL RED # OE    O6 STATE O7 ZIP CODE  O3 STREET ADDRESS IP O DOL RED # OE    O6 STATE O7 ZIP CODE	III. PREVIOUS OWNER(S) :List most recent first					AS A S MINISED
OS STREET ADDRESS (P O BOL RED P. OC.)  OB STATE OF ZIP CODE  NY  OS STATE OF ZIP CODE	Mr. Stanley Lewis		02 D+B NUMBER	01 NAME		
Katonah  O1 NAME Mr. Fred Lee (deceased)  O4 SC CODE  O5 STREET ADDRESS (P.O. DOL RED P. DEL)  O6 STATE O7 ZIP CODE  O1 NAME  O2 D+B NUMBER  O4 SC CODE  O5 CITY  O6 STATE O7 ZIP CODE  O1 NAME  O2 D+B NUMBER  O2 D+B NUMBER  O3 STREET ADDRESS (P.O. DOL RED P. DEL)  O4 SIC CODE  O3 STREET ADDRESS (P.O. DOL RED P. DEL)  O4 SIC CODE  O5 STATE O7 ZIP CODE  O4 SIC CODE  O5 STATE O7 ZIP CODE	03 STREET ADDRESS (P 0 Dos. RFD # MC)		D4 SIC CODE	03 STREET ADDRESS (P.O. Soz. RED 4, otc.)		04 SIC CODE
O1 NAME  Mr. Fred Lee (deceased)  O4 SKC COOE  O3 STREET ADDRESS (P O DOL RED P. DIC.)  O6 STATE O7 ZIP COOE  O1 NAME  O2 D+B NUMBER  O1 NAME  O2 D+B NUMBER  O1 NAME  O2 D+B NUMBER  O3 STREET ADDRESS (P O DOL RED P. DIC.)  O4 SKC COOE  O5 CITY  O6 STATE O7 ZIP CODE  O3 STREET ADDRESS (P O DOL RED P. DIC.)  O4 SKC COOE  O3 STREET ADDRESS (P O DOL RED P. DIC.)  O4 SKC COOE  O3 STREET ADDRESS (P O DOL RED P. DIC.)  O4 SKC COOE  O5 STATE O7 ZIP COOE  O5 STATE O7 ZIP COOE	05 (1) 1		07 ZIP CODE	05 CITY	D6 STATE	07 ZIP CODE
03 STREET ADDRESS (P 0 Pai, RFD F, etc.)  04 SIC CODE  03 STREET ADDRESS (P 0 Pai, RFD F, etc.)  04 SIC C  05 CITY  06 STATE 07 ZIP CODE  01 NAME  02 D+B NUMBER  01 NAME  03 STREET ADDRESS (P 0 Pai, RFD F, etc.)  04 SIC C  05 CITY  06 STATE 07 ZIP CODE  07 D+B NUMBER  01 NAME  03 STREET ADDRESS (P 0 Pai, RFD F, etc.)  04 SIC C  05 CITY  06 STATE 07 ZIP CODE  07 STREET ADDRESS (P 0 Pai, RFD F, etc.)  08 STATE 07 ZIP CODE  09 STATE 07 ZIP CODE		- 1	C2 D+B NUMBER	01 NAME		02 D+B NUMBER
05 CITY  06 STATE 07 ZIP CODE  01 NAME  01 NAME  02 D+B NUMBER  01 NAME  02 D+B NUMBER  03 STREET ADDRESS (P O Day, RFD P, OC.)  04 SIC CODE  03 STREET ADDRESS (P O Day, RFD P, OC.)  04 SIC CODE  05 STATE 07 ZIP CODE			04 SIC CODE	03 STREET ADDRESS (P.O. Dos. RED #, MC.)		04 SIC CODE
01 NAME  02 D+B NUMBER  03 STREET ADDRESS (P 0 Dat. RFD F. OIC.)  04 SIC CODE  03 STREET ADDRESS (P 0 Dat. RFD F. OIC.)  04 SIC CODE  05 STREET ADDRESS (P 0 Dat. RFD F. OIC.)  06 STATE 07 ZIP CODE	05 CITY K	% STATE	07 ZIP CODE	05 CITY	O6 STATE	D7 ZIP CODE
03 STREET ADDRESS (* 0 tox AFD *, orc.)  04 SC CODE  05 STREET ADDRESS (* 0 tox AFD *, orc.)  06 STATE   07 ZIP CODE	O1 NAME		02 D+B NUMBER	O1 NAME		02 D+8 NUMBER
OS STATE DT ZIP CODE OS CITY OS STATE OT ZIP CODE	03 STREET ADDRESS (P D Das AFD P. orc.)		D4 SIC CODE	03 STREET ADDRESS (P O CM. RPD +, CM.)		04 SIC CODE
06a11	овату	36 STATE	07 20P CODE	05 CITY	OB STATE	07 ZIP COD€
V. SOURCES OF INFORMATION (Can associate information in gr. cases final company products reported	V. SOURCES OF INFORMATION (CON BOOK	rotoroncos	e y sicre fical comple pres	tycs reporte)		

SITE INSPE				ARDOUS WASTE SITE  CTION REPORT  ATOR INFORMATION  I. IDENTIFICATION  O1 STATE O2 SITE NUMBER  NY D980508139			
II. CURRENT OPERAT	OR /Provide # #71eron/ Iron	echer.		OPERATOR'S PARENT COMPA	NY (# cooccess)		
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER	
D3 STREET ADDRESS (P.O Box AFD # etc.)			D4 SIC CODE	12 STREET ADDRESS (P O Box APD+ etc.)		13 SIC CODE	
05 CITY		DE STATE	07 ZIP CODE	14 CiTY	15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION	OF NAME OF OWNER					<u> </u>	
III. PREVIOUS OPERAT	TOR(S) (Lat most rocem for	II. provide prej	r & Sifteront from eumor)	PREVIOUS OPERATORS' PAREI	NT COMPANIES #	approcepts;	
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER	
Town of Dover				_			
03 STREET ADORESS IP 0 6	or RFD# etc :		04 SIC CODE	12 STREET ADDRESS IP O Dos. RFD#. etc.	,	13 SIC CODE	
Duncan Hill R	oad						
05 CITY		DE STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
Dover Plains NY		12522					
08 YEARS OF OPERATION	DO NAME OF OWNER D	URING THE	PERIOD				
1 to 8	Mr. Fred I	ee					
D1 NAME	1 NAME		D2 D+B NUMBER	10 NAME	111		
03 STREET ADDRESS (P 0 PA	ox RFD# o(c)		04 SIC CODE	12 STREET ADORESS (P O Bas, RFD P, orc )		13 SIC CODE	
05 CITY		DE STATE	07 ZIP CODE	14 CITY	15 STATE	18 ZIP CODE	
DB YEARS OF OPERATION	OR NAME OF OWNER D	URING THE	PERIOD		<u> </u>		
D1 NAME			02 D+B NUMBER	10 NAME	11		
03 STREET ADDRESS (P. D. Dout, RFD P. etc.)			04 SIC CODE	12 STREET ADDRESS IP O. Dos. AFD F. orc.	13 SUC CODE		
05 CITY 06 STATE		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION	DO NAME OF OWNER D	URING THE	PERIOD			l <u></u>	

DCHD

NUS Corp.

Interview with James Hosie

\$EPA		SITE INSPE	ARDOUS WASTE SITE  ECTION REPORT TRANSPORTER INFORMATION  1. IDENTIFICATION		
II. ON-SITE GENERATOR					
D1 NAME		02 D+B NUMBER			
DESTREET ADDRESS IP C BOX RED		04 SIC CODE			
DS CITY	06 STATE	D7 ZIP CODE			
III. OFF-SITE GENERATOR(S)					
1 NAME		02 D+B NUMBER	01 NAME	lo	2 D+B NUMBER
Oover residents		To this soor	D3 STREET ADDRESS (P.O. Box. RFD F. otc.)		D4 SIC CODE
3 STREET ADDRESS IF O Box RFD# #IC :		D4 SIC CODE	US STREET ADDRESS IF U aux HPUP, VIL)		
95 CITY	D6 STATE	D7 ZIP CODE	OS CITY	D6 STATE	7 ZIP CODE
) NAME		02 D+B NUMBER	O1 NAME		02 D+B NUMBER
3 STREET ADDRESS IP C BOI RED . BIC .		D4 SIC CODE	03 STREET ADDRESS IP C DOS RED O OIC I		D4 SIC CODE
				IOS STATE)	07 ZIP CODE
DS CITY	O6 STATE	07 ZIP CODE	OS CITY		
IV. TRANSPORTER(S)			T		OZ D+B NUMBER
1 NAME		02 D+B NUMBER	D1 NAME		
Dover residents D3 STREET ADDRESS (F 0 80) RFD + 0(c)		04 SIC CODE	03 STREET ADORESS IP 0 DOL RED P. ME )		04 SIC CODE
05 CITY	DE STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
)) NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
					D4 SIC CODE
3 STREET ADDRESS IP C Box RED # etc .		D4 SIC CODE	03 STREET ADDRESS IP 0 Cox. RFD F. ofc )		0. 30 000
DS CITY	O6 STATE	D7 ZIP CODE	D5 CITY	D6 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION ICEA	apacific references (	C sicie por soudio ouch	ia reporti		
NUS Corp.				•	
DCHD Interview with James 1	Hosie				
Interview with James 1	Hosie				
<del></del> :					

FA	PRA	POTENTIAL HAZARDOUS WASTE SITE			ITIFICATION	_
8	EPA	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		OI STATE NY	D980508139	_
H. P/	AST RESPONSE ACTIVITIES					_
	01 TA WATER SUPPLY CLOSED 04 DESCRIPTION	O2 DATE	03 AGENCY			_
No	o history.					
	01 D B TEMPORARY WATER SUPPLY PROVI 04 DESCRIPTION	DED 02 DATE	03 AGENCY			_
No.	o history.					
	QL C PERMANENT WATER SUPPLY PROVI	DED 02 DATE	03 AGENCY			_
	o history.					_
	01 I D SPILLED MATERIAL REMOVED 04 DESCRIPTION 0 history.	02 DATE	03 AGENCY			=
	<u> </u>					
	01 DE CONTAMINATED SOIL REMOVED 04 DESCRIPTION	O2 DATE	03 AGENCY			_
	history.					
	D1 T WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY			_
_	history.					
C	01 I G WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY			_
	history.		·			
	DI THE ON SITE BURIAL OF DESCRIPTION	02 DATE	03 AGENCY			_
	history.					
D	DI TI IN SITU CHEMICAL TREATMENT MADESCRIPTION	D2 DATE	03 AGENCY			-
	history.	02 DATE			·	
0	DI DI IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY		<del></del>	-
No	history.					
	11 (2) K IN SITU PHYSICAL TREATMENT M4 DESCRIPTION	02 DATE	03 AGENCY			=
No	history.					_
	1 T.L. ENCAPSULATION 4 DESCRIPTION	02 DATE	03 AGENCY			_
	history.					-
	1 T M EMERGENCY WASTE TREATMENT 4 DESCRIPTION	D2 DATE	03 AGENCY			_
	history.				·	
	1 IN CUTOFF WALLS 4 DESCRIPTION	02 DATE	03 AGENCY _			-
No	history.					
	1 D O EMERGENCY DIKING/SURFACE WATER	DIVERSION 02 DATE	03 AGENCY			_
No	history.					
	DESCRIPTION	02 DATE	03 AGENCY			_
No	history.					
	© 0 SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY .			_
No	history.					

EPA FORM 2070-13 (7-81)

SITE INSPECTION DEPOND		POTENTIAL HAZARDOUS WASTE SITE		L IDENTIFICATION
PART 10-PAST RESPONSE ACTIVITIES (INCOME)  OI C R BARRIER WALLS CONSTRUCTED  OI C SEPPRON  No history.  OI D S CAPPROGOVERING  COVER PLACED OVER FILL MATERIAL AFTER AN APPEARMENT OF AGENCY  OF COVER PLACE OVER FILL MATERIAL AFTER AN APPEARMENT OF AGENCY  OI C T BUSTON SEALED  OJ AGENCY  OI C T BRIEF CONTROL  OI C AGENCY  OI C T SER CONTROL  OI D S CAPPRON  No history.  OI C T SER CONTROL  OI D SCREPTION  No history.  OI C T SER CONTROL  OI D SCREPTION  No history.  OI C T SER CONTROL  OI C SER CONTROL  OI D SCREPTION  No history.  OI C T SER CONTROL  OI D SCREPTION  No history.  OI C T SER CONTROL  OI C SER CONTROL  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHART TREATMENT  OI D SCREPTION  No history.  OI C SEACHARTON  NO	l C FPA		•	O1 STATE D2 SITE NUMBER
IPAST RESPONSE ACTIVITIES COMMONS OF CARPING WALLS CONSTRUCTED OF CARPING COVERNS OF CARPING COVERNS OF COVER PLACED OVER FILL MATERIAL ACTIVITIES OF DESCRIPTION COVER PLACED OF DESCRIPTION OF COVER PLACED OF DESCRIPTION No history. OF CARPING COVERNS OF COVERNS O				NY D980508139
O DESCRIPTION  NO history.  O D S CAPPINACIOVERINO OD ESCRIPTION OF DATE OD AGENCY OD DESCRIPTION NO HISTORY.  O T D BULK TANAGE REPARED OD DESCRIPTION NO HISTORY.  O T D BULK TANAGE REPARED OD DESCRIPTION NO HISTORY.  O T D BOTOM SEALED OD DESCRIPTION OD DESCRIPTION ON D HISTORY.  O T W GAS CONTROL OD DESCRIPTION ON DESCRIPTION NO HISTORY.  O T W GAS CONTROL OD DESCRIPTION ON D HISTORY.  O T X FIRE CONTROL OD DESCRIPTION NO HISTORY.  O T Y LEACHART REATMENT OD DESCRIPTION NO HISTORY.  O T Y LEACHART REATMENT OD DESCRIPTION NO HISTORY.  O T ACCESS TO STE RESTRICTED OD DESCRIPTION OR THE TOTORY.  O T ACCESS TO STE RESTRICTED OD DESCRIPTION OR THE TOTORY.  O T ACCESS TO S	II PAST RESPONSE ACTIVITIES (Commund)			
OD DESCRIPTION No history.  OD DATE OD AGENCY OD SCAPPHOCOVERING OF THE MALE REPUBLICATION OF THE CONTROL OD SCAPPHON OF THE CONTROL OD SCAPPHON OF THE CONTROL OD DESCRIPTION No history.  OD DATE OD AGENCY OD DESCRIPTION No history.  OD DATE OD AGENCY OD DESCRIPTION NO HISTORY.  OD DATE OD AGENCY OD DATE OD AGENCY OD DESCRIPTION NO HISTORY.  OD DATE OD AGENCY OD AGENCY OD AGENCY OD DATE OD AGENCY	01 TR BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY	
OI D'S CAPPING/COVERING OD DESCRIPTION COVET placed over fill material after closure (date unknown).  O'ST BULK TANKAGE REPARED OZ DATE OJ AGENCY  No history.  O'S U GROUT CURTAN CONSTRUCTED OX DESCRIPTION No history.  O'S UN BOSTOM SEALED OZ DATE OJ AGENCY OL DESCRIPTION No history.  O'S UN BAS CONTROL OF DESCRIPTION No history.  O'S DATE OJ AGENCY OZ				
COVET placed over fill material after closure (date unknown).  O'L' BULX TANKAGE REPARED  O'S DATE  O'S AGENCY  O'L' E GROUT CURTAIN CONSTRUCTED  O'L' E GAS CONTRO.  O'L' A GAS CONTRO.  O'L' A GAS CONTRO.  O'L' E AGE CONTRO.  O'L' E FIRE CONTRO.  O'L' E LEACHATE TREATMENT  O'L' ESCRIPTION  No history.  O'L' L' AGEL ENCLUATED  O'L' EAGLATE TREATMENT  O'L' E AGEL ENCLUATED  O'L' E CAMER E				
Cover placed over fill material after closure (date unknown).  O': 1 BULK TANKAGE REPARED OD DESCRIPTION  No history.  O': 2 U GROUT CUNTAIN CONSTRUCTED OD DATE OD AGENCY  O': 2 U GROUT CUNTAIN CONSTRUCTED OD DATE OD AGENCY  No history.  O': 2 U GAS COMTROL OD DESCRIPTION No history.  O': 2 W GAS COMTROL OD DESCRIPTION No history.  O': 2 Y LEACHATE TREATMENT OD DATE OD DATE OD AGENCY OD DESCRIPTION No history.  O': 2 Y LEACHATE TREATMENT OD DATE OD DESCRIPTION No history.  O': 2 Y LEACHATE TREATMENT OD DATE OD DESCRIPTION No history.  O': 2 AREA EVACUATED OD DESCRIPTION No history.  O': 2 AREA EVACUATED OD DESCRIPTION No history.  O': 2 AREA EVACUATED OD DESCRIPTION No history.  O': 2 O DATE OD DATE OD DATE OD AGENCY OD DESCRIPTION No history.  O': 2 O DATE OD AGENCY OD DESCRIPTION No history.  O': 2 O DATE OD AGENCY OD DATE OD AGENCY OD DESCRIPTION No History.  O': 2 O DATE OD AGENCY OD DATE OD AGENCY OD DESCRIPTION No history.  O': 2 O DATE OD AGENCY OD OD AG	D4 DESCRIPTION			
ON DESCRIPTION  No history.  O' I U GROUT CURTAIN CONSTRUCTED OF DESCRIPTION  No history.  O' I N GAS CONTROL O' I SK GAS CONTROL O' I N GAS CONTR	Cover placed over fill	· · · · · · · · · · · · · · · · · · ·		
O' T U GROUT CURTAIN CONSTRUCTED OD DESCRIPTION NO history.  O' T V ROTTON SEALED OD AGENCY  O' T W GAS CONTROL O' T W GAS CONTROL OD DESCRIPTION NO history.  O' T W GAS CONTROL OD DESCRIPTION NO history.  O' T W GAS CONTROL OD DESCRIPTION NO history.  O' T W GAS CONTROL OD DESCRIPTION NO history.  O' T W SEALE TREATMENT OD DATE OD AGENCY  O' T W LEACHART TREATMENT OD DATE OD DATE OD AGENCY OD DESCRIPTION NO history.  O' T J LACCESS TO SITE RESTRICTED OD DESCRIPTION NO HISTORY.  O' T L ACCESS TO SITE RESTRICTED OD DESCRIPTION NO HISTORY.  O' T D SEAR PROPRIED OD DESCRIPTION NO HISTORY.  O' T D SEARCH TO DESCRIPTION NO HISTORY.  O' D D SEARCH TO D SEARCH TO DESCRIPTION NO HISTORY.  O' D D SEARCH TO D SEARCH TO DESCRIPTION NO HISTORY.  O' D D SEARCH TO D SEARCH TO DO SEARCH TO DESCRIPTION NO HISTORY.  O' D SEARCH TO D SEARCH TO DO SEARCH TO DESCRIPTION NO HISTORY.  O' D SEARCH TO D SEARCH TO DO SEARCH TO DO SEARCH TO DO SEARCH TO DESCRIPTION NO HISTORY.  O' D SEARCH TO D SEARCH TO DO SEARCH TO DESCRIPTION NO HISTORY.  O' D SEARCH TO DO SEARCH TO DO SEARCH TO DESCRIPTION NO HISTORY.  O' D SEARCH TO DO SEARCH	04 DESCRIPTION	O2 DATE	03 AGENCY.	
No history.  O' I V BOTTOM SEALED O2 DATE O3 AGENCY  O' D W GAS CONTROL O4 DESCRIPTION No history.  O' I N GAS CONTROL O4 DESCRIPTION No history.  O' I N EFIRE CONTROL O5 DATE O3 AGENCY O5 DATE O5 AGENCY O6 DESCRIPTION No history.  O' I N LEACHATE TREATMENT O2 DATE O3 AGENCY O6 DESCRIPTION No history.  O' I N AREA FUNCULATED O2 DATE O3 AGENCY O6 DESCRIPTION No history.  O' I N ACCESS TO SITE RESTRICTED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N ACCESS TO SITE RESTRICTED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N ACCESS TO SITE RESTRICTED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N ACCESS TO SITE RESTRICTED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O2 DATE O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O6 DESCRIPTION NO HISTORY.  O' I N OF STANDARD RELOCATED O3 AGENCY O7 DATE O7				
No history.  01 T V BOTTOM SEALED C4 DESCRIPTION No history.  01 T W GAS CONTROL 04 DESCRIPTION No history.  01 T X FIRE CONTROL 04 DESCRIPTION No history.  01 T X LEACHATE TREATMENT 04 DESCRIPTION No history.  01 T X LEACHATE TREATMENT 05 DATE 05 AGENCY 06 DESCRIPTION No history.  01 T X LEACHATE TREATMENT 06 DESCRIPTION No history.  01 T X CAPES EVACUATED 06 DESCRIPTION No history.  01 T X AGCESS TO SITE RESTRICTED 06 DESCRIPTION NO HISTORY.  01 T ACCESS TO SITE RESTRICTED 07 DATE 08 AGENCY 09 DESCRIPTION NO HISTORY.  01 T 3 COLESS TO SITE RESTRICTED 09 DESCRIPTION NO HISTORY.  01 T 3 COLESS TO SITE RESTRICTED 09 DESCRIPTION NO HISTORY.  01 T 3 OTHER REMEDIAL ACTIVITIES 02 DATE 03 AGENCY 04 DESCRIPTION NO HISTORY.  01 T 3 OTHER REMEDIAL ACTIVITIES 02 DATE 03 AGENCY 04 DESCRIPTION O4 DESCRIPTION NO DESCRIPTION NO DESCRIPTION O5 AGENCY 06 DESCRIPTION O5 AGENCY 07 AGENCY 08 AGENCY 09 DATE 09 AGENCY 0		D2 DATE	D3 AGENCY	
No history.  01 I W GAS CONTROL 04 DESCRIPTION No history.  01 I X FIRE CONTROL 04 DESCRIPTION No history.  01 I Y LEACHATE TREATMENT 04 DESCRIPTION No history.  01 I Z A AREA EVACUATED 04 DESCRIPTION No history.  01 I Z AREA EVACUATED 05 DESCRIPTION No history.  01 I ACCESS TO SITE RESTRICTED 06 DESCRIPTION NO HISTORY.  01 I Z POPULATION RELOCATED 07 DATE 08 AGENCY 09 DATE 09 AGENCY				
No history.  01 Tw GAS CONTROL 04 DESCRIPTION No history.  01 Tx FIRE CONTROL 05 DESCRIPTION No history.  01 Tx FIRE CONTROL 06 DESCRIPTION No history.  01 Tx LEACHATE TREATMENT 06 DESCRIPTION No history.  01 Tx AREA EVACUATED 06 DESCRIPTION No history.  01 Tx AREA EVACUATED 06 DESCRIPTION No history.  01 Tx ACCESS TO SITE RESTRICTED 07 DESCRIPTION NO HISTORY.  01 Tx ACCESS TO SITE RESTRICTED 08 DESCRIPTION NO HISTORY.  01 Tx POPULATION RELOCATED 09 DATE 03 AGENCY 04 DESCRIPTION No history.  01 Tx POPULATION RELOCATED 04 DESCRIPTION No history.  01 Tx POPULATION RELOCATED 05 AGENCY 06 DESCRIPTION No history.  01 Tx POPULATION RELOCATED 06 DESCRIPTION No history.		02 DATE	03 AGENCY.	
No history.  01	·			
O1 D X FIRE CONTROL O4 DESCRIPTION  No history.  O1 D Y LEACHATE TREATMENT O2 DATE O3 AGENCY  NO history.  O1 D AGENCY  1 D AGENCY O1		02 DATE	Q3 AGENCY.	
O4 DESCRIPTION  No history.  D1 = Y LEACHATE TREATMENT	No history.			
D1 C Y LEACHATE TREATMENT 04 DESCRIPTION  No history.  01 C 2 AREA EVACUATED 04 DESCRIPTION No history.  01 C 1 ACCESS TO SITE RESTRICTED 05 DESCRIPTION NO HISTORY.  01 C 2 POPULATION RELOCATED 06 DESCRIPTION No history.  01 C 2 POPULATION RELOCATED 07 DATE 08 AGENCY 09 DESCRIPTION No history.  01 C 3 OTHER REMEDIAL ACTIVITIES 09 DATE 09 DATE 09 AGENCY 09 DESCRIPTION NO history.		02 DATE	03 AGENCY.	
No history.  01 = 2 AREA EVACUATED O4 DESCRIPTION No history.  01 = 1 ACCESS TO SITE RESTRICTED O5 DESCRIPTION No History.  01 = 2 POPULATION RELOCATED O5 DESCRIPTION No history.  01 = 3 OTHER REMEDIAL ACTIVITIES O5 DATE O5 AGENCY O5 DESCRIPTION No history.  01 = 3 OTHER REMEDIAL ACTIVITIES O5 DATE O5 AGENCY O5 DESCRIPTION  D5 AGENCY O5 DESCRIPTION  D6 AGENCY O5 DATE O5 AGENCY	No history.			
01 I 2 AREA EVACUATED ON DESCRIPTION NO history.  01 I 1 ACCESS TO SITE RESTRICTED ON DESCRIPTION NO HISTORY.  01 I 2 POPULATION RELOCATED ON DESCRIPTION NO history.  01 I 3 OTHER REMEDIAL ACTIVITIES ON DESCRIPTION ON DESCRIPTION ON DESCRIPTION ON DESCRIPTION ON DESCRIPTION  DO DESCRIP		02 DATE	03 AGENCY.	
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	DCHD			
Interview with James Hosie		ie		



### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY D980508139

**-** · -

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION TIMES DINO

DZ DESCRIPTION OF FEDERAL STATE LOCAL REGULATORY/ENFORCEMENT ACTION

None known.

" SOURCES OF INFORMATION (Cre accorde notamentos e g. accre fice acment product reports)

#### CHAPTER 6

### DATA ADEQUACY AND RECOMMENDATIONS

### 6.1 DATA ADEQUACY

The preliminary HRS migration score  $(S_M)$  for the Route 22 Westside site was not scored for lack of information. Additional data are required to accurately complete the HRS. Information required to complete the HRS and characterize the site includes:

- Groundwater Data on water quality in the unconsolidated aquifer, hydraulic and geologic characterization of bedrock
- O <u>Surface Water</u> Up- and downgradient sample collection
- Direct Contact Samples from leachate seep(s) to be collected and analyzed for TCL compounds

### 6.2 RECOMMENDATIONS

While no longer practiced, it was common during the 1960s to locate sanitary landfills in low-lying marshy areas (wetlands). The fill material is presumed to have been deposited in a marshy area and is still sitting in wet conditions. No documentation or allegations exist to suspect hazardous waste disposal at this site. Empty drums noted on the surface appeared to have been placed at the site after it was closed and covered. One leachate sample was collected. Iron and phenol were detected. Phenol was found just above the detection limit. However, these data do not conclusively support a case for the landfill being either hazardous or clean.

Hazardous constituents in the leachate have not been fully analyzed and the leachate may contain only metals and nonhazardous chemicals. It can also be demonstrated that all such old landfills

have some levels of hazardous constituents because of small amounts of hazardous household chemicals routinely discarded with garbage. The leachate could, without a liner or complete clay barrier, impact the surface waters and sediments in the marsh next to the site. Area soils (from tills) encourage surface water ponding because of high clay content. Therefore, if the site was not excavated before landfilling occurred, the soil may act as a natural barrier, preventing leachate from entering groundwater

A complete data set to support either case does not exist. Therefore, a stepped sampling program is recommended. Preliminary studies can be used to decide whether the site should be delisted to the Bureau of Municipal Waste (responsible for Part 360 [Solid Waste Management Facility] oversight) if no or very low levels of hazardous substances are discovered. A Phase II investigation should be conducted if hazardous substances are present in concentrations significantly above those expected from small quantities of household wastes.

### 6.2.1 Preliminary Studies

A low-level investigation is recommended to determine whether there is any need to conduct a Phase II investigation. It should consist of the following:

- Residential Well Sampling Groundwater samples should be collected from the houses in the vicinity of the site and analyzed for the full Target Compound List (TCL).
- Leachate Sampling Leachate, surface water, and sediment samples should be collected from the surface water and analyzed for the full TCL and Extraction Procedure (EP) Toxicity or Toxicity Characteristic Leaching Procedure (TCLP) compounds.

O Soil Gas/Groundwater Sampling - A number of soil gas points should be installed on the landfill to detect any contamination. If feasible, two or three points should be extended to groundwater, and a sample should be collected and analyzed by a mobile laboratory.

### 6.2.2 Phase II Investigation

If the preliminary studies uncover some indications of hazardous wastes at the landfill, then a Phase II investigation should be conducted at the site. Since the preliminary studies should have supplied information normally included in the first few tasks of a Phase II, we recommend that this effort concentrate on the remaining tasks:

- Geophysical Surveys If the preliminary studies indicate the possibility of a contaminant plume leaving the site, a resistivity or conductivity survey may be useful to locate the plume. The geophysical survey could also determine depth to bedrock and moisture conditions in the fill.
- Monitoring Wells Based on soil gas and geophysical results, upgradient and downgradient monitoring wells should be installed and sampled to determine the local groundwater table fluctuations, gradients, and quality. Local residential wells should also be sampled.
- Additional Sampling Sampling of soil surface water and sediment sampling and analysis can be done if preliminary studies demonstrate the need.
- Site Survey The site should be surveyed to determine fill extent, sampling locations, and elevations.
- Summary Report A report should be written outlining findings and recommendations.

APPENDIX A

REFERENCES AND DATA SOURCES

## APPENDIX A REFERENCES AND DATA SOURCES

- [1] Interview with Mr. James Hosie of Whitney Aggregates, Inc.
- [2] USGS topographic map, Dover Plains, NY-Conn. 1958.
- [3] NUS Corporation. 1983. Potential Hazardous Waste Site, Site Inspection Report. Prepared for EPA.
- [4] Dutchess County Health Department site inspection reports.
- [5] New York State wetlands map.
- [6] 6 NYCRR Conservation, Part 701 and 825.
- [7] Secor, W. (Ed.). 1955. Soil survey, Dutchess County. U.S. Department of Agriculture, Soil Conservation Service, Cornell University Agricultural Experiment Station. U.S. Government Printing Office, Washington, DC. p. 92.
- [8] Simmons, E.T., Grossman, I.G., and Heath, R.C. 1961. Ground-Water Resources of Dutchess County, New York. Bulletin GW-43. U.S. Geological Survey/New York Water Resources Commission, Albany, New York. pp. 17, 18, 19, 43, and map.
- [9] Analytical data.

REFERENCE 1

### INTERVIEW/QUESTIONNAIRE

Page 1 of 4

Date: 7 April 1989

Site: Route 22, Westside NYSDEC ID NO. 314029

Interviewer: M. Creager

Interview Type: phone

Address: Route 22

Dover, NY

Interviewee: Mr. James Hosie Phone No. (914) 229-7725

Affiliation: Vice President of

Whitney Aggregates, Inc.

(site owner)

### Description and History of Site:

- 1. What is the current owner's name and address? How long? What was the property's intended use?
- 2. Who is the current operator of the area in question?
- 3. Who were the previous owners and/or operators (names, addresses and dates of ownership) during the time environmental problems occurred?
- 4. What type of site? (landfill, open dump, lagoon, treatment pond, structure, etc) Dates of activity.
- 5. Where is site located? Describe surrounding area, refer to roads, streams, railroads, shopping centers, etc., include brief sketch map of site.
- 6. Has the site topography changed? What is site like now? Were there any buildings added, torn down, still there? Are there any underground tanks? Where? Have any land, buildings and/or underground tanks been filled? When/where? Size of site.
- 7. Have there been any wells on the site? Are they still in use? When were they built? By whom? When filled? Which wells are closest to the site? Is there a water supply in area?

- 8. Were there any catastrophies such as fire, flood, or building collapse? What happened afterwards? Where did debris go? Were there any environmental effects after the catastrophie?
- 9. What event caused this site to be the subject of an environmental investigation? Complaints, releases, etc? When?

### Site Operations:

- 10. What process, function, or activity occurred at the site? What are the beginning and ending dates.
- 11. What chemicals were used at site? Amounts. How were these chemicals used at the site? How were they stored?
- 12. What wastes were produced at the site? What was done with wastes? Were they stored? Where?
- 13. What residential, commercial or industrial wastes were carried to and disposed of at the site?

### Site Problems:

- 14. When did the site first start having problems? What types of problems?
- 15. What was done about the problems? Have they been resolved? Which ones corrected? Which ones have not been corrected?
- 16. Were there inspections of the site? By whom.
- 17. What regulatory agencies have contacted you or the company (in question) (NYSDEC, Health Dept., etc)?
- 18. Were there any soil, water, waste or air sampling analyses or reports? If yes, when and report reference?

### Unresolved Questions and Followup:

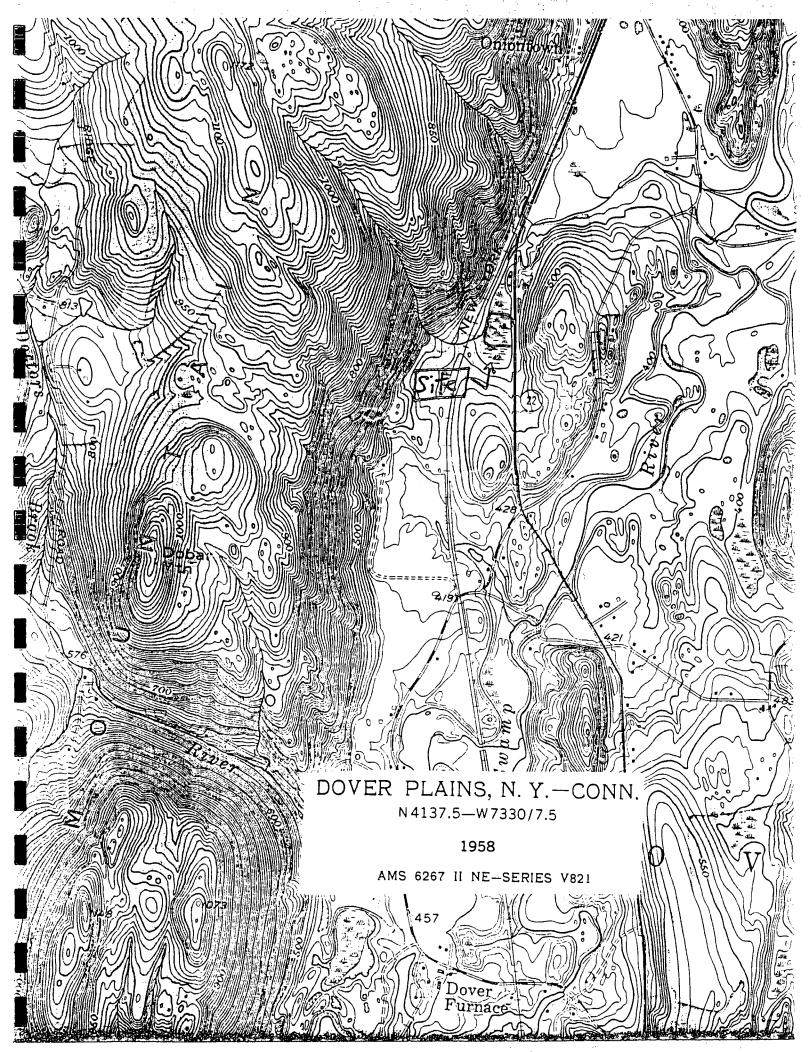
- 19. Questions by site representative/interviewee. Answers by LMS/interviewer.
- 20. Questions by LMS/interviewer. Answers by site representative/interviewee.
- 21. Unresolved questions by either party.

- Whitney Aggregates, Inc., c/o Mr. James Hosie, RD 2, Box 369F, Rhinebeck, NY 12572. Whitney Aggregates, Inc., has owned the property for approximately 10 years. They purchased the land as an investment.
- 2. Site is inactive. No current operator.
- 3. Previous owner was Mr. Stanley Lewis, Katonah, NY. The Town of Dover was the only operator.
- 4. The site is a landfill that was active from (approximately) 1967 to 1968.
- 5. The site is located approximately 1.75 miles south of Dover Plains along the west side of Route 22. The landfill occupies approximately 1 acre. The site is surrounded by woods in an unpopulated area. A railroad track trends north-south approximately 200 ft west of the site. Marshy areas exist north and south of the landfill. A stream flows west under Route 22 into the south marsh, then continues flowing west, turns north, and follows the eastern edge of the railroad embankment.
- 6. No. Landifll is relatively flat and covered. A small abandoned guardshack stands near the site entrance. The landfill occupies approximately 1 acre.
- 7. No. The closest wells are probably in Oniontown approximately 0.5 miles to the north.
- 8. No.
- 9. I don't know.
- 10. Landfilling. 1967 to approximately 1968.
- 11. n/a
- 12. n/a
- 13. Municipal waste from the Town of Dover.
- 14. None known.
- 15. n/a
- 16. The Dutchess County Health Department.
- 17. No one has contacted him.
- 18. No.
- 19, 20 and 21.

### ACKNOWLEDGEMENT

information exchanged between myself an transcript are noted below.	d LMS interviewer. Any revisions to the
	· · · · · · · · · · · · · · · · · · ·
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<del> </del>	
Interviewer: Mark & Geogn	Date: 5/25/89
Interviewee:	Date: 5-10-85

REFERENCE 2



REFERENCE 3



## POTENTIAL HAZARDOUS WASTE SITE

## EXECUTIVE SUMMARY

_Dover Landfill #2	NYDOROGOS
Site Name	NYD980508139 EPA Site ID Number
	Et it site to indiliber
Route 22: South of Dover Plains	02-8306-29
Address	TDD Number
Davis II V. 1950	
Dover, N.Y. 12522	
Date of Site Visit: October 5, 1983	
SITE DESCRIPTION	
The site is a 5 acre former municipal la The site is located in a rural area and A wet marshy area lies to the southwest DEC sampled leachate on site and detecte	is currently supporting vegetation, of the site. In December, 1979, the NY
PRIORITY FOR FURTHER ACTION:  RECOMMENDATIONS  Since the surrounding residents obtain t	
groundwater, the potential for a drinkin is recommended that sampling be conducted contaminated the groundwater	g water contamination exists. It
_	
Prepared by: Martin J. O'Neill of NUS Corporation	Date: 10/17/83

SEPA

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

OI STATE OF SITE NUMBER D9805081 39

	PART 1 - SIT	E LOCATION AND	INSPE	CHONINFOR	MATION			
II. SITE NAME AND LOCATIO								
O1 SITE MAME iterat common or restriction name of the			UZ STREET ROUTE NO . ON SPECIFIC LOCATIVALIDENTIFIER					
Dover Landfill #2			Route 22 - South of Dover Plains					
03 CITY			1	05 ZIP CODE	06 COUNTY	01CO	UNITY DR CONG	
Dover			NY	12522	Dutchess	02	7 25	
09 COORDINATES - LATITUDE 41° 42' 42" N . 7	TO TYPE OF DIVNERSH  \$ A. PRIVATE  F OTHER	□ B. FE		C C STATE C D. COUNT		ICIPAL		
III. INSPECTION INFORMATIO	N OZ SITE STATUS	OJ YEARS OF OPERAT	ION	<del></del>		<del></del> -		
· -	Z ACTIVE		968	1974	UNKNOWN	ı		
10 - 5 - 83	INACTIVE	∋FG:	NHING YEA	R ENDING YE	in .			
GA AGENCY PERFORMING INSPECTIO								
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C E. STATE OF, STATE CONT	THACTOR	spine of firms	⊆ G. O1	HEH	Suector			
05 CHIEF INSPECTOR		O6 TITLE	. 1 . 6 . 7		07 ORGANIZATION	08 TELEP		
Martin J. O'Neill	<del></del>	Environment	a   5010	206156	NUS Corp.		25-6160	
09 OTHER INSPECTORS		10 TITLE			11 ORGANIZATION	12 TELEPH		
Arthur J. Clarke		Chemist			NUS Corp.	201 / 2	25-6160	
Edward F. McTiernan		Environment	al Scientist NUS Corp.		NUS Corp.	(201) 225-6160		
			-			( )	•	
						( )		
,						( )		
13 SITE REPRESENTATIVES INTERVIEWED		14 TITLE	1:	SADDRESS		16 TELEPH	ONE NO	
Otto Sprossel		Supervisor		own of Dove	r	914 1 8	32-6234	
George Morse		Councilman	F	ural Route	2 Box 212	914 ) 8	77-9105	
Richard Rennia		Councilman		Wingdale, NY 12594		914 ) 8	014 ) 877-9105	
						( )		
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						( )		
(Check ene)	E PERMISSION 1015 hr. Sunny, warm 60-65°F, light wind, visibility good.							
IV. INFORMATION AVAILABLE	FROM					02 15: 50: 5	VE NO	
01 CONTACT		1	2 OF IAgency-Organizations			03 TELEPHONE NO. (201 ) 321-6685		
Mark Haulenbeek		US EPA, Env	TOTAL OF THE SETTINGS OF THE STORE				1-0082	
D4 PERSON RESPONSIBLE FOR SITE INSPECTION FORM		05 AGENCY	06 ORGANIZATION D7 TELEPHONE NO.		DA DATE			
Martin J. O'Neill		FIT II	NUS Corp. 201-225-6160				10 , 10 , 83	

HNU A - FIELD READY DATE 10/3/83 WERE DETECTED WHILE ON SITE. NO HAU READINGS BRIVE OPPIN .312 TIRES (ETC.) WERE MOTICED ON Site. Some bulky news -No GENBACE WAS EXPUSED OF The Some File Anes. WAS LOCATED AT THE EOSE OF AREA OF PHYDED WATER - MARASHY 10-18 FEET HIGH . AN AND PO The Forman File AREA. THEES NATURE. TREES WERE GROWING ON COVER MATERIAL WAS ROCK! IN SITE IN THE MIDST OF RESERVERENIUM. WASH IN SPECTION FIT FOUND THE of 1580 was 7259. THAT THE DOVER POPULATIVE OS

homer, treatment grand french Olefuse Disposal area - James / Horrer (Olmte 22) Operation: The above refuse duporal rate review the residents of the Town of Hover is by operation an open face dump rate. Both futrescible and mon-futrescible material are dupored of at the rate with mo regregation of larger material. All of the refuse is burned through no permit for same has been with a slope twenty feet deep, is not compacted and covered very infrequently. The only equipment used is the Town judy with a snow blade. The cover material, a sandy loom, is obtained from the Town quark bank which is located six miles from the disposal site.

There is no attendant in duty. Achieves: 1. The burning of refue is about fractical authoritagerment.

2. The refuse is not compared and is covered infrequently.

3. Dumping is not confined to an orea which can be effectively maintained. 4. Proper equipment is not used on available for a refuse disposal operation. 5. The measures are taken to control invests and rollents other than State is not forted directing when to dump and to probably burning.

7. her five fighting equipment is available on the rate.

8. There is not means of translating extrapsed to the dump site,

9. Adequate ferring is not friended to confine them refuse.

10. The attendant is to duty thus resulting in a tech of any imperioris,

Charles that is the that is that a the strain of months and surring the them.

I was a forward through the strain of one will be the strain is not suffered to the strain is not suffered to the strain on a one you have,

I would say me and one one some hour.

Gelme Wufred hen - J. Duren (Gt. 22) Entrance fortal stations days of some all types of refuse are demped and large moterial is not sergegated for attendant on durty. Sate is recompany and worded Define is contantly coming. Getting is not comfacted and covered over ranchy. From equiforment is used amuit of the greeks with some blader and dump trucks. Wump is ofen face with a fort whose and 75 feet in length. Dumping is not confine and highwardly done.
In cover material on rete. As Atund from Journ gravel bank. This very friendent
many evidences of rate. Dumping by Journ residents. In fire fighting grafiment on rute. Very from function

#### DUTCHESS COUNTY HEALTH DEPARTMENT

#### MEMORANDUM

TO: File

December 26, 1967

FROM:

A. LaMastra

SUBJECT:

BURNING IN TOWN DUMP - TOX": OF DOVER

On 12/21/67, at approximately 10:45 A.M., I noticed a large quantity of black smoke coming from the Dover disposal area on Route 22 in the Town of Dover. Upon arriving at the disposal area, I found numerous small fires burning and one large fire which was producing the bulk of the dark smoke.

A Mr. William Slocum who is employed by Hunt's Furniture, Town of Dover, was emptying the contents of a truck owned by Capital Roofing of Poughkeepsie. According to Mr. Slocum, Capital Roofing is doing work at the Hunt Factory and on his lunch hour he drove the truck to the dump. He was directed to the spot and requested to dump the material on the existing fire. The material consisted of roofing debris including some lumber, but mostly tar paper.

Inquiring of the persons at the site, I received the usual answer. The caretaker did not know who started the fire, and, of course, did not tell anyone to burn. He did not know how to get in touch with anyone of a more responsible position. I feel that something should be done with the town officials since this flagrant burning is a common occurrence.

AL:jt

H. V. SCOTALICE

T. RUTT A

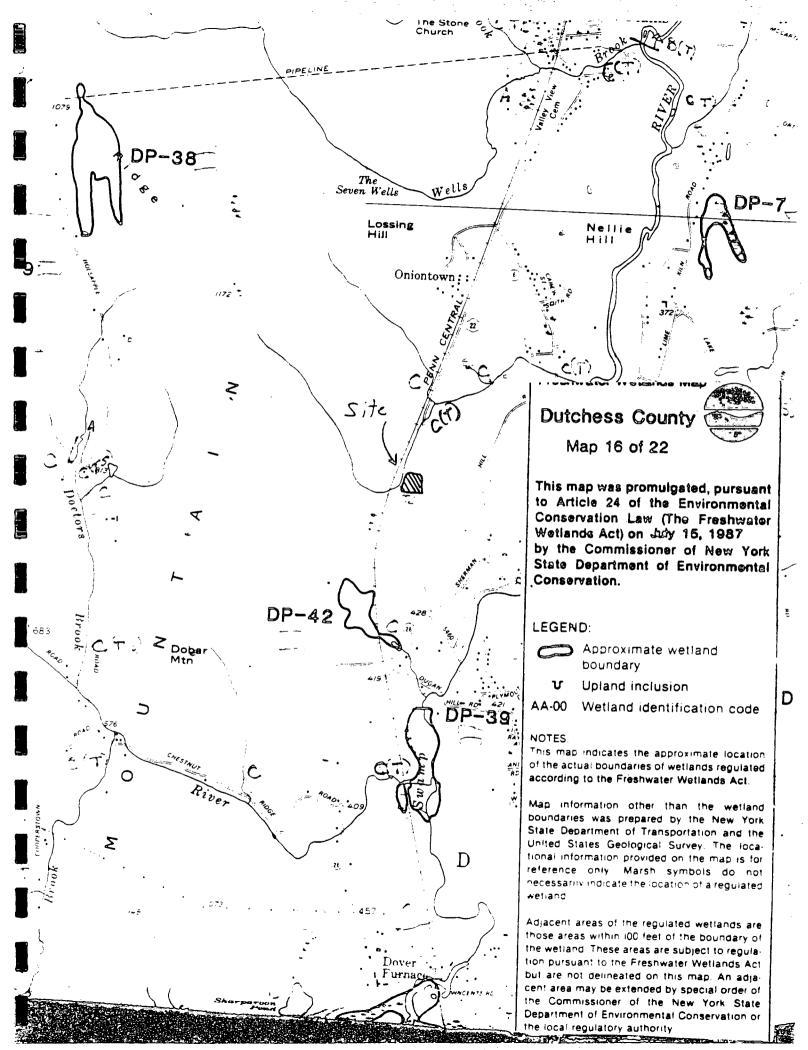
TOUR OF POVID REFUSE PISMOSAL SITE - ROUTE 22

JUNI 18, 1968

Inspections of the above site have shown that there exists detrimental conditions as a result of refuse being consisted in an area where surface water drains and where springs may exist under the fill. A drainage pipe runs under Loute 22 in an east-to-west direction, thus resulting in surface water draining into an area south and adjacent to the dumpsite. I steady stream of leachate is emanating at the northwest end of the dumpsite and flowing into a stream, which is located a provincely 70 feet northwest of the dumpsite. The is a noted color difference in the stream where the leachate intersects and that upstream from the intersection.

As a result of the water conditions, I feel that a further evaluation should be made to determine if refuse dumping should continue.

PTK: es



#### PART 825

#### HOUSATONIC RIVER DRAINAGE BASIN

(Statutory authority: Environmental Conservation Law, § 17-0301)

Sec. Sec. Table I 825.6 825.1 Adopting order 825.7 Designated waters Map 1 825.2 Map 2 825.3 Definitions Quadrangle maps

Special conditions Assigned classifications and standards

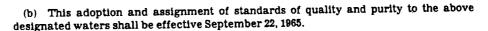
of quality and purity

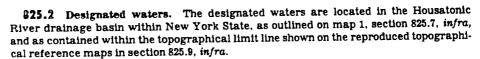
#### **Historical Note**

825.9

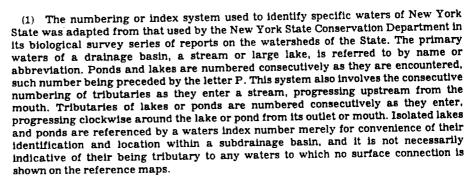
Part amd, filed April 18, 1986 eff. 30 days after filing. Amended statutory authority.

Section 825.1 Adopting order. (a) Pursuant to article 12 of the Public Health Law, the Water Resources Commission, after proper study and following public hearings conducted by the commission, held on due notice, hereby adopts and assigns the following classifications and standards of quality and purity to all surface waters within the Housatonic River drainage basin, as hereinafter defined. Said drainage basin includes all land and surface water areas of the Housatonic River drainage basin within New York State.





- 825.3 Definitions. The several terms, words or phrases hereinafter mentioned shall be construed as follows:
- (a) Item No. In table I an item number is assigned consecutively to each specifically designated waters.
- (b) Waters index numbers as appearing in table I shall mean that number assigned to any designated waters for the purpose of identification.



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1395 CN 4-30-86





Part 825

ch. X Division of Water Resources (confineed) 1399 CN 4-30-86

TABLE I

Classifications and Standards of Quality and Purity Assigned to Fresh Surface Waters within the
Housatonic River Drainage Basin, Dutchess and Columbia Counties, State of New York

TOOLS LABOR

Item No.	Waters Index Number	Name	Comments	Map Ref. No.	Class	Standards
1	Conn. 12 portion	Tributary of Housatonic River	From New York-Conn. state line to 1000 ft. upstream.	O-25se	В	В
2	Conn. 12 portion and trib. 12-1	Tributary of Housatonic River and subtributary	From 1000 ft. upstream from state line to source.	O-25se	C	С
3	Conn. 14 portion	Tributary of Housatonic River	From New York-Conn. state line to 1000 ft. upstream.	O-25se	В	В
ı	Conn. 14 portion	Tributary of Housatonic River	From 1000 ft. upstream from state line to source.	O-25se	C	C(TS)
;	Conn. 14-P 112	Brady pond		0.05-		
}	Conn. 15 portion	Tenmile River	From New York-Conn. state line to Lake Ellis Road Bridge.	O-25se O-25ne	В	C B(T)
а	Conn. 15 portion	Tenmile River	From Lake Ellis Road Bridge to trib. 6.	O-25ne	C	C(T)
	Conn. 15 portion	Tenmile River	From trib. 6 to trib. 7.	O-25ne	-	
	Conn. 15 portion	Tenmile River	From trib. 7 to source.		B	B(T)
	Conn. 15-1	Tributary of	source.	N-25se	C	C(T)
		Tenmile River		O-25ne	C	C(T)

825

CHAPTER X

DIVISION OF

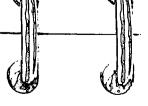
WATER RESOURCES

	TABLE I (cont'd.)							
Item No.	Waters Index Number	Name	Comments	Map Ref. No.	Class	Standards		
31	Conn. 15-4 portion	Swamp River	From trib. 8 to trib. 15.	O-25se	C	C(T)		
32	Conn. 15-4 portion	Swamp River	From trib. 15 to source.	O-25ne O-25sw	C	C(T)		
> 33	Conn. 15-4-1	Tributary of Swamp River		O-25ne	c ·	C(T)		
34	Conn. 15-4-1-1, 2	Subtributaries of Swamp River		O-25ne	C	C		
35	Conn. 15-4-1a	Tributary of Swamp River		O-25ne	c ,	C		
36	Conn. 15-4-2	Mill River or Dover Furnace Brook		O-25ne O-25nw	C	C(T)		
37	Conn. 15-4-2-a	Tributary of Mill River		O-25ne	c	c		
38	Conn. 15-4-2-1	Coopertown Brook		O-25ne	C	C(T)		
39	Conn. 15-4-2-1-1	Tributary of Coopertown Brook		O-25ne O-25nw	C	C(T)		
39.1	Conn. 15-4-2-1. 1a and tribs. 1a-1, 1a-2, 1a-3, 1a-3-P 1116c	Tributary of Coopertown Brook and subtributaries		O-25ne O-25nw	C	C		
	-							









701.19 Classes and standards for fresh surface waters. The following items and specifications shall be the standards applicable to all New York fresh waters which are assigned the classification of AA, A, B, C or D, in addition to the specific standards which are found in this section under the heading of each such classification.

#### Quality Standards for Fresh Surface Waters

#### Items

#### Specifications

No increase except from natural sources 1. Turbidity.

that will cause a substantial visible contrast to natural conditions. In cases of naturally turbid waters, the contrast will be due to increased turbidity.

None from man-made sources that will be 2. Color. detrimental to anticipated best usage of

waters.

None from sewage, industrial wastes or 3. Suspended, colloidal or setteable solids. other wastes which will cause deposition

or be deleterious for any best usage determined for the specific waters which are

assigned to each class.

No residue attributable to sewage, indus-4. Oil and floating substances. trial wastes or other wastes nor visible oil

film nor globules of grease.

5. Taste and odor-producing substances, toxic wastes and deleterious

substances.

None in amounts that will be injurious to fishlife or which in any manner shall adversely affect the flavor, color or odor thereof, or impair the waters for any best usage as determined for the specific water which are assigned to each class.

6. Thermal discharges.

(See Part 704 of this Title.)

#### CLASS "AA"

Best usage of waters. Source of water supply for drinking, culinary or food processing purposes and any other usages.

Conditions related to best usage of waters. The waters, if subjected to approved disinfection treatment, with additional treatment if necessary to remove naturally present impurities, will meet New York State Department of Health drinking water standards and will be considered safe and satisfactory for drinking water purposes.

#### Quality Standards for Class "AA" Waters

#### Items

#### Specifications

1. Collform.

The monthly median coliform value for 100 ml of sample shall not exceed 50 from a minimum of five examinations and provided that not more than 20 percent of the samples shall exceed a coliform value of 240 for 100 ml of sample.

2. pH

Shall be between 6.5 and 8.5.

3. Total dissolved solids.

Shall be kept as low as practicable to maintain the best usage of waters, but in no case shall it exceed 500 milligrams per liter.

4. Dissolved oxygen.

For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For non-trout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

#### CLASS "A"

Best usage of waters. Source of water supply for drinking, culinary or food processing purposes and any other usages.

Conditions related to best usage of waters. The waters, if subjected to approved treatment equal to coagulation, sedimentation, filtration and disinfection, with additional treatment if necessary to reduce naturally present impurities, will meet New York State Department of Health drinking water standards and will be considered safe and satisfactory for drinking water purposes.

#### Quality Standards for Class "A" Waters

#### Items

#### **Specifications**

1. Collform.

The monthly median coliform value for 100 ml of sample shall not exceed 5,000 from a minimum of five examinations, and provided that not more than 20 percent of the samples shall exceed a collform value of 20,000 for 100 ml of sample and the monthly geometric mean fecal coliform value for 100 ml of sample shall not exceed 200 from a minimum of five examinations.

2. pH

Shall be between 6.5 and 8.5.

3. Total dissolved solids.

Shall be kept as low as practicable to maintain the best usage of waters, but in no case shall it exceed 500 milligrams per

liter.

4. Dissolved oxygen.

For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For non-trout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

#### CLASS "B"

Best usage of waters. Primary contact recreation and any other uses except as a source of water supply for drinking, culinary or food processing purposes.

#### Quality Standards for Class "B" Waters

#### Items

#### Specifications

1. Coliform.

The monthly median collform value for 100 ml of sample shall not exceed 2,400 from a minimum of five examinations, and provided that not more than 20 percent of the samples shall exceed a collform value of 5,000 for 100 ml of sample and the monthly geometric mean fecal collform value for 100 ml of sample shall not exceed 200 from a minimum of five examinations. This standard shall be met during all periods when disinfection is practiced.

2. pH

Shall be between 6.5 and 8.5.

3. Total dissolved solids.

None at concentrations which will be detrimental to the growth and propagation of aquatic life. Waters having present levels less than 500 milligrams per liter shall be kept below this limit.

4. Dissolved oxygen.

For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For non-trout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

#### CLASS "C"

Best usage of waters. The waters are suitable for fishing and fish propagation. The water quality shall be suitable for primary and secondary contact recreation even though other factors may limit the use for that purpose.

#### Quality Standards for Class "C" Waters

#### Items

#### **Specifications**

1. Coliform.

The monthly median coliform value for 100 ml of sample shall not exceed 2,400 from a minimum of five examinations, and provided that not more than 20 percent of the samples shall exceed a coliform value of 5,000 for 100 ml of sample and the monthly geometric mean fecal coliform value for 100 ml of sample shall not exceed 200 from a minimum of five examinations. This standard shall be met during all periods when disinfection is practiced.

2. pH

Shall be between 6.5 and 8.5.

3. Total dissolved solids.

None at concentrations which will be detrimental to the growth and propagation of aquatic life. Waters having present levels less than 500 milligrams per liter shall be kept below this limit.

4. Dissolved oxygen.

For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For non-trout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

#### CLASS "D"

Best usage of waters. The waters are suitable for fishing. The water quality shall be suitable for primary and secondary contact recreation even though other factors may limit the use for that purpose. Due to such natural conditions as intermittency of flow, water conditions not conducive to propagation of game fishery or stream bed conditions, the waters will not support fish propagation.

Conditions related to best usage of waters. The waters must be suitable for fish survival.

#### Quality Standards for Class "D" Waters

#### Items

#### Specifications

1. pH

Shall be between 6.0 and 9.5.

2. Dissolved oxygen.

Shall not be less than 3 milligrams per liter

at any time.

3. Coliform.

The monthly median coliform value for 100 ml of sample shall not exceed 2,400 from a minimum of five examinations and provided that not more than 20 percent of the samples shall exceed a coliform value of 5,000 for 100 ml of sample and the monthly geometric mean fecal coliform value for 100 ml of sample shall not exceed 200 from a minimum of five examinations. This standard shall be met during all periods when disinfection is practiced.

#### Historical Note

Sec. added by renum, and amd. 701.4, filed July 3, 1985; amd. filed Sept. 20, 1985 eff. 30 days after filing.

701.20 Classes and standards for saline surface waters. The following items and specifications shall be the standards applicable to all New York saline surface waters which are assigned the classification of SA, SB, SC or SD, in addition to the specific standards which are found in this section under the heading of each such classification.

### SOIL SURVEY

# Dutchess County New York



Series 1939, No. 23

Issued December 1955

UNITED STATES DEPARTMENT OF AGRICULTURE

Soil Conservation Service
In cooperation with the

CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION

Hudson silty clay loam, steep phase (30% slopes) (Hw).—This heavy-textured soil occurs on steep slopes extending from the uplands down to the Hudson River. It is associated with Hudson

silty clay loam, hilly phase, and other Hudson soils.

The soil profile is similar to that of Hudson silty clay loam, hilly phase. It is characterized by a thin acid solum of silty clay loam over layers of relatively unweathered calcareous silt and clay. The soil is highly susceptible to erosion when cleared and is subject to slips and landslides on the steeper slopes even when under forest. Practically all of it is in forest, its best use.

Kendaia silt loam (0-3% slopes) (KA).—This poorly drained soil has developed from moderately deep or deep glacial till composed chiefly of limestone, with which some slate, sandstone, schist, and gneiss rock materials are infermixed. The soil occurs on very gentle slopes or nearly level areas on the lower parts of slopes and at the heads of streams in the limestone valleys. Internal drainage and surface runoff are slow. The soil commonly occurs between areas of very poorly drained Lyons soils in the depressions and areas of better drained gently sloping or rolling Amenia, Pittsfield, Stock-

bridge, Dover, and Wassaic soils.

The 10-inch surface soil is dark brown or dark grayish brown in pasture areas. It is friable, breaks up into small irregular fragments, is slightly alkaline, and contains numerous roots. The subsoil from 10 down to 17 inches is brownish-gray silt loam mottled with gray and rusty brown. It is firm or slightly compact, alkaline, and becomes more strongly mottled with depth. From 17 down to 26 inches the subsoil is very compact light-brown heavy gritty loam strongly mottled with yellow, rust brown, and gray. This layer is calcareous and contains many partly decomposed limestone pebbles. Extending from 26 to 36 inches or more, the substratum is very compact calcareous grayish-brown gravelly loam mottled with yellow and rust brown. This layer extends to several feet, and mottling decreases with depth. Bedrock seldom outcrops. Pieces of gravel, predominantly from limestone, are present throughout the profile. Few roots penetrate below 17 inches.

Use and management.—Kendaia silt loam has poor natural drainage. A few areas of it have been drained artificially. A few small fields occurring among larger areas of better drained soils have been ditched. The cultivated areas are generally small and lie adjacent to areas of the better drained Pittsfield, Stockbridge, Amenia, or Dover soils. They are used like these associated soils but produce lower

yields.

Pasture is generally fair to excellent. As on nearly all the limestone soils, bluegrass and wild white clover are abundant. Few weeds grow in the better permanent pastures. A few operators top-dress with superphosphate to stimulate the growth of bluegrass and wild white clover and thus crowd out the weeds. Hardhack is sometimes a pest. In poorer pastures plantain, thistle, and other weeds, some cedar, and other trees and brush are present.

Undrained areas are better suited to pasture than to cultivated crops. Corn, small grains, and vegetables are frequently drowned out during temporary flooding. Alfalfa is seldom a success. Ladino clover in

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# STATE OF NEW YORK DEPARTMENT OF CONSERVATION WATER RESOURCES COMMISSION

Ground-Water Resourses of Dutchess County, New York

Ву

E. T. SIMMONS, I. G. GROSSMAN, AND R. C. HEATH
Geologists, U. S. Geological Survey



Prepared by the
U. S. GEOLOGICAL SURVEY
in cooperation with the

NEW YORK WATER RESOURCES COMMISSION

BULLETIN GW-43 ALBANY, N. Y.

1961

The Cheshire is not important as a source of ground water because of its small areal extent and because it underlies steeply sloping hillsides which are sparsely settled. Only five wells in the county are known to tap quartzite; these are listed in table 13.

Stockbridge limestone, -- Over the Cheshire quartzite is a thick sequence of carbonate rocks, which underlie a much greater part of the county than the quartzite. In the east, carbonate rocks lie beneath the broad Harlem Valley, which contains Tenmile River and its principal tributaries and which extends almost without interruption from the Putnam County line to the Columbia County line. In the south, the valley of Fishkill Creek is underlain by limestone which extends from Beacon northeastward to the head of the creek. Other areas in the western and central parts of the county also are underlain by elongate masses of carbonate rocks (pl. 2).

Several different names have been applied to the carbonate rocks in different parts of the county, including Barnegat limestone (Mather, 1843, p. 410), Fishkill limestone (Gordon, 1911, p. 70), and Wappinger limestone (Gordon, p. 48). Knopf (1956, p. 1817) found that the carbonate rocks near Stissing Mountain range in age from Early Cambrian to Early Ordovician and divided them into the Stissing dolomite, Pine Plains formation, Briarcliff, dolomite, Halcyon Lake formation, and Rochdale limestone. Because there appear to be no essential differences in the water-bearing properties of the carbonate rocks, all are included in this report under the Stockbridge limestone, after the locality in Massachusetts where they were first described (Emmons, 1842, p. 154-156).

The carbonate rocks range in composition from almost pure calcium carbonate (limestone) to almost pure calcium-magnesium carbonate (dolomite). Limestone is more abundant in the upper part of the sequence and dolomite is more common in the lower part. Table 3 lists an analysis of a typical sample of dolomite from the Stockbridge limestone.

This analysis shows that more than 10 percent of the dolomite consists of impurities, chiefly silica and alumina. In some localities these impurities are abundant enough to form sandy and shaly beds in the Stockbridge.

Table 3.--Chemical composition of dolomite 1/ from the Stockbridge limestone

Determination	Percent by weight
Lime (CaO)	29.07
Magnesia (MgO)	16.29
Carbonic acid (H <sub>2</sub> CO <sub>3</sub> )	40.76
Alumina (Al <sub>2</sub> 0 <sub>3</sub> )	2.33
Ferric oxide (Fe <sub>2</sub> 0 <sub>3</sub> )	.47
Silica (SiO <sub>2</sub> )	10.17
Total	99.09

Collected at the Stoneco quarry of the Clinton Point Stone Co. about 4 miles south of Poughkeepsie. Analysis from Ries (1901, p. 779).

The metamorphism of the Stockbridge limestone generally increases in intensity from northwest to southeast. In the northwest and west, the formation is relatively undisturbed and original bedding is easily visible. Fossils have been found in the formation as far south as Clove Valley. Farther east, however, as in the Valley of Swamp River, the formation has been metamorphosed to a marble and the beds are severely folded. Balk noted that the folding is greater in the thin layers than in the thicker ones and that it is greatest near thrust faults. In the southeastern part of the county, the marble has been so severely deformed by plastic flow that it appears to be wrapped around stronger rocks. South of Pawling, the marble contains masses of schist that are folded and faulted into the limestone.

The deformation of the Stockbridge limestone makes it difficult to determine its thickness. In southwestern Putnam County, where the formation is relatively undisturbed, the thickness is about 1,000 feet. At Stissing Mountain, near Pine Plains in the north-central part of Dutchess County, the thickness of the different limestones and dolomites measured by Knopf (1946, p. 1211) totals 2,800 feet. The thickness of the carbonate rocks is

probably about 1,000 feet in most places in the county. The Stockbridge limestone weathers readily and commonly forms valley and lowland areas. In the valley of Fishkill Creek, solution cavities filled with clay and sand have been reported.

Hudson River formation. -- The Hudson River formation is the most extensive bedrock unit in the county. As may be seen from plate 2, it extends from the Hudson River in the west to the Connecticut State line in the east, interrupted by only a few relatively narrow limestone belts. The name "Hudson River slate group" was first used by Mather (1840, p. 212, 256-258) for the slaty rocks in the southeastern part of the State. Gordon (1911) mapped these rocks in the Poughkeepsie quadrangle as the 'Hudson River group." Berkey and Rice (1921) mapped the same rocks in southwestern Dutchess County as 'Hudson River shales and phyllites.' In the southeastern part of the county these rocks are referred to as 'Hudson River pelite" in publications by Balk (1936) and Barth (1936). In the Copake quadrangle in southeastern Columbia County, the names Elizaville shale (mainly Cambrian, possibly including some Lower Ordovician), Berkshire schist (Ordovician), and Trenton black slate (Ordovician) have been used by Weaver (1957, pl. 1) for rocks that extend southward into northeastern Dutchess County. Ruedemann (1942) divided the predominantly argillaceous rocks in the Catskill quadrangle, in northwestern Dutchess County, into the Nassau beds and Schodack shale (including Bomoseen grit) of Cambrian age, and the Deepkill shale and Normanskill shale (including the Mount Merino member and the Austin Glen member) of Ordovician age. As used in this report, the Hudson River formation includes all the argillaceous and schistose rocks in Dutchess County.

Although the Hudson River formation is preponderantly argillaceous, it includes a large variety of rock types. The lower part of the unit contains much sandstone ("grit") and is locally called bluestone by some well drillers. The unit also contains chert and beds of sandstone, limestone, and conglomerate. Quartz veins are very abundant. The shale itself is locally black, gray, red, or green.

The metamorphism of the Hudson River formation increases in intensity from northwest to southeast, just as in the Stockbridge limestone. At Red Hook, in the northwestern part of the county, the unit is a shale. The shale grades imperceptibly southeastward into a slate and then into a lustrous phyllite. Between the valley of Wappinger Creek and the headwaters of Fishkill Creek, it is chiefly a phyllite. Farther southeast, between Fishkill Creek and the Harlem Valley it is predominantly a garnet-bearing schist. In the extreme southeastern part of the county, east of Pawling, it is a gneissic schist. The gneissic schist in this area contains amphibolite lenses and pegmatite intrusions.

Amenia. -- Amenia (population 800) is supplied from two wells, Du 99 and Du 100, owned by the Amenia Water Co. Consumption averages about 100,000 gpd and maximum consumption is about 150,000 gpd.

Beacon,—Beacon (population 14,000) was formerly supplied entirely by the Cargill, Mount Beacon, and Melzingah reservoirs, with capacities of 160 million, 124 million, and 55 million gallons, respectively. The supply became inadequate during dry periods in the decade 1940-50, and additional water was pumped from Fishkill Creek. In 1948 and 1949 several test wells were drilled in the Fishkill Valley, about 4 miles northeast of Beacon, to determine whether a satisfactory ground-water supply could be obtained (see 1950, reportedly yielded 1,400 gpm. Well Du 630, which was completed in water and surface-water sources is 1,750,000 gpd. All water is chlorinated before distribution.

<u>Dover Plains.</u>—Prior to 1957, water for the village of Dover Plains (population 700) was obtained entirely from Seven Wells Brook. Since 1957, the supply has been supplemented with water from a drilled well. Distribution is effected by gravity. The maximum consumption is 120,000 gpd but the average is about 75,000 gpd. About 90 percent of the water is used by industries. The water is chlorinated.

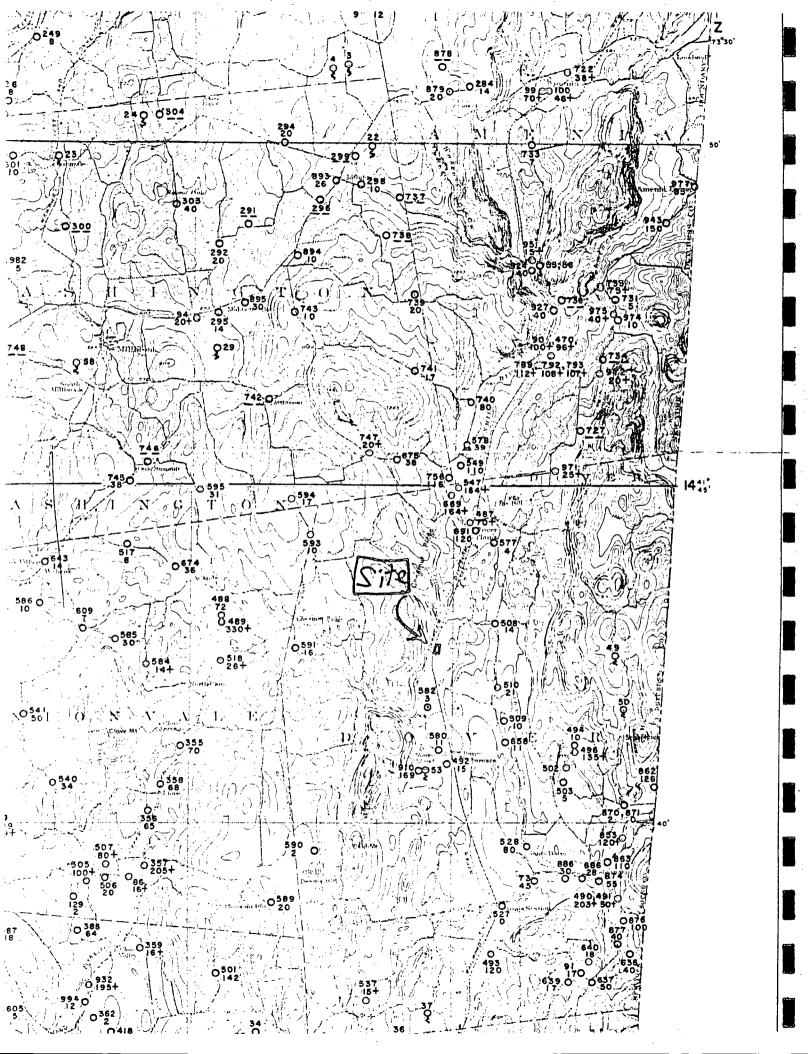
Fishkill.—Fishkill (population 720) is supplied by water from Hell Hollow Brook and Clover Brook. The water from these streams is stored in a reservoir with a capacity of 6 million gallons, situated 5 miles south of the village. Water is distributed from the reservoirs by gravity. It is chlorinated and copper sulfate also is used to control the growth of algae in the reservoir when the water supply is low. The average consumption is 125,000 gpd but the maximum reaches 500,000 gpd.

Hyde Park. -- Hyde Park (population 1,200) obtains water from Crum Elbow Creek. Consumption averages 50,000 gpd and rises to a maximum of 60,000 gpd. Treatment includes chlorination, coagulation, and filtration.

Millerton.--Millerton (population 953) is supplied by two wells, Du 166 and Du 167, and auxiliary springs. Consumption is reported to average 150,000 gpd. Chlorination is the only treatment.

Pawling. -- Pawling (population 1,446) is supplied by a surface reservoir with a capacity of 30 million gallons, situated about 4 miles northwest of the village. Consumption is reported to be 150,000 gpd and maximum consumption is 170,000 gpd. Treatment consists of chlorination.

Pine Plains, -- The Pine Plains Water Co. supplies water to 90 percent of Pine Plains (population 700) from dug and drilled wells. A dug well, Du 96, is 15 feet deep and is reported to yield 50 gpm. Two drilled wells, Du 97 and Du 680, yield 50 gpm and 220 gpm, respectively, from limestone. Average consumption is 45,000 gpd and the maximum is 60,000 gpd.



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### CAMO LABORATORIES

25 Albany Post Road, Hyde Park, N. Y. 12538 914/229-8337

CLIENT:

Mr. Robert J. Vrana

Assistant Public Health Eng. Dutchess County Health Dept.

22 Market Street

FACILITY: Poughkeepsie, New York 12601

Dover Plains Samples

DATE REC'D	December 17, 1979
LABORATORY	No: 79-12-6581
PURCHASE OR	DER No:

METHOD of ANALYSIS: EPA

REPORT DOE DATE: January 31, 1980

AUTH. SIGNATURE:

LAB. DIRECTOR:

SAMPLE IDENTIFICATION:	PAGE 1 OF 2
A 1008 - Cricket Hill	F. T. Dover
8 1009 Route 22 Nort	A -T Dorer
D	
Comments:	

Rt. 22, Westside

	A	, B	(c)	D	E	F	G	н	1
Chloride	10.0	27.5	12.5						
рН	6.3	4.0	6.7				· · · · · · · · · · · · · · · · · · ·		
TOC	516	108	56				<del></del>		<del></del>
Specific Conduct	ance 2050	750	315 ×µv/	cm					
011/Grease	1.6	3.4	<0.1						
Phenol	< 2	< 2	3.8						
PCB (ppb) 1248	∠0.091	< 0.042	8						
1254	< 0.036	< 0.041	à.						
1260	40.039	< 0.036	4						
Iron	(1191)	(405)	30.6						
Chrome	< 0.05	< 0.03	< 0.03						

ANALYSIS COMMENTS: * *micromho's/per centimeter-(uw/cm)  *Multiple interferences, peaks prevented the evalution. of	INVOICE TO:	No	TERMS: NET AMT. DUE:
PCB peaks on the chromotogram. There was insufficient sample volume to rerun.		• .	
Results in mg/L unless noted otherwise.			



## CAMO LABORATORIES

25 Albany Post Post H		SAMPLE IDENTIFICATION: PAGE 2 OF 2
CLIENT Mr. Robert J. Vrana Assistant Public Health Enginee Dutchess County Health Department 22 Market Street FACILITY Poughkeepise, New York 12601	METHOD of ANALYSIS: EPA REPORT DUE DATE: January 31, 1980	A 1008 - Cricket Hill Road - T Cover B 1009 - Route 22 North G - T Dover C 1010 - Route 22 South - T Dover D. E.
Dover Plains Samples	AUTH. SIGNATURE:	Comments:
	LAB. DIRECTOR:	

SAMPLE IDENTIFICATION:

	^	В	C	D	E	T =		·	
Chrome + 6	< 0.05	< 0.03	<0.03			ļ <u>-</u> -	G	Н	T
Mercury (ppb)	< 1.0	< 1.0	<1.0						
Lead	0.02	0.02	0.01						1
Cadmium	0.01	< 0.01							<u> </u>
		1 4.01	< 0.01						<del> </del>
		<del>                                     </del>	1						<b> </b>
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ANALYSIS COMMENTS Please Note - All (<) signs indicate the lowest		
detectable concentration due to the methodology	INVOICE TO: No_	750
or instrumentation.		TERMS: NET AMT, DUE
		1

APPENDIX B

UPDATED NYSDEC/DHWR
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: 2a

REGION: 3

SITE CODE: 314029

EPA ID: NYD980508139

NAME OF SITE: Route 22 Westside

STREET ADDRESS: Route 22 (1.75 miles south of Dover Plains)

TOWN/CITY: Dover

COUNTY: Dutchess

ZIP: 12522

SITE TYPE: Open Dump- Structure-

Lagoon- Landfill- X Treatment Pond-

ESTIMATED SIZE: 1 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME..... Whitney Aggregates, Inc. 

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From None suspected Τo

#### SITE DESCRIPTION:

The site was a municipal landfill used from 1 to 8 years. The site is covered and very well vegetated (supporting trees). No hazardous waste is documented or alleged to have been disposed of at the site. The site lies immediately west of Route 22 and east of Penn-Central railroad tracks. A stream and small wetland is contiguous with the southern border. A marsh and intermittent stream is contiguous with the northern boundary. The area is located in a wooded, sparsely populated area south of Dover Plains. A Phase I has been completed.

Preliminary studies are currently recommended to determine if the site should be delisted to Bureau of Muncipal Waste (Part 360) jurisdiction or a Phase II conducted.

HAZARDOUS WASTE DISPOSED: Confirmed-

Suspected-QUANTITY (units)

None suspected

SITE CODE: 314029

ANALYTICAL DATA AVAILABLE:

Air- Surface Water- X

(Leachate)

ater- X Groundwater-

Soil-

Sediment-

None-

CONTRAVENTION OF STANDARDS:

Groundwater-

Drinking Water-

Surface Water-

Air-

LEGAL ACTION:

TYPE..:

State-

Federal-

STATUS: Negot

Negotiation in Progress-

Order Signed-

REMEDIAL ACTION:

Proposed-

Under Design-

In Progress-

Completed-

NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE: Kendias Silty Loam GROUNDWATER DEPTH: 5-10 ft

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

No hazardous waste disposal suspected. Leachate has been observed emanating from the site into a marsh. A small wetland abuts the southern border.

#### ASSESSMENT OF HEALTH PROBLEMS:

<u>Medium</u>	Contaminants _Available	Migration Potential	Potentially Exposed <u>Population</u>	Need for Investigation
Air	Unlikely	Unlikely	No	Low
Surface Soil	Unknown	Likely	Yes	Medium
Groundwater	Unknown	Likely	Yes	Medium
Surface Water	Identified	Highly likely	Yes	High

Health Department Site Inspection Date: 11/84

MUNICIPAL WASTE ID: 14-S-76